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Regult
No.
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Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Minimum DB seq length: 0
Maximum DB seq length: 200000000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Database
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Scoring table:
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Perfect score:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      May 3, 2005, 05:49:25; Search time 31.1351 Seconds (without alignments)
148.023 Million cell updates/sec
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1: uniprot_sprot:*
2: uniprot_trembl:*
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Gapop 10.0 , Gapext 0.5
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                   Q6LSF9
Q6V1Q5
Q9YMG2
VSGP_EBOEC
VSGP_EBOG4
VSGP_EBOZ5
VSGP_EBOZM
Q8JS61
Q6V1Q6
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ARLY XYLFA
ARLY XYLFT
CD45 MOUSE
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VGP_MABVM
VGP_MABVP
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Q6ED60
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CD45_H
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Qedd2 actus nigri
Qedd2 actus vocif
p94296 bacillus fi
p94296 bacillus fi
p94296 sacillus fi
p94296 sacillus fi
p94296 sacillus fi
p95621 xylella fas
p06800 mus musculu
Q61812 mus musculu
Q61812 mus musculu
Q64730 mus musculu
P35253 marburg vir
P35254 marburg victor
Q6uy66 lake victor
Q71vml lake victor
Q71vml lake victor
Q8yt51 anabaena sp
Q6145 photobacter
Q6v1q5 zaire ebola
Q9ymg2 zaire ebola
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Q9ymg2 zaire ebola
P87670 ebola virus
P60170 ebola virus
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P08575 homo sapien
Q91054 heterodontu
Q6ed60 aotus vocif
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Q6ed62
Q8mjq2
P94296
Q9pem5
P59621
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EBORES EBORES CBORS CBORS CBORS CBORS CBOSS CBOS	SEQUENCE FROM N.A. (ISOFORM 1), AND ALTERNATIVE SPLICING. TISSUE-Lymphocytes; MEDLINE-88061067; PubMed=2824653; Streuli M., Hall L.R., Saga Y., Schlossman S.F., Saito H.	Name=PTPRC; Synonyms=CD45; Name=PTPRC; Synonyms=CD45; Homo sapiens (Human). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi Mammalia; Butheria; Primates; Catarrhini; Hominidae; Homo. NCBI_TaxID=9606; [1]	UMAN STANDARD; PRT; 1304 AA. ; Ol6614; O9HOY6; -1988 (Rel. 08, Created) -2003 (Rel. 42, Last sequence update) -2004 (Rel. 44, Last annotation update) yte common antigen precursor (EC 3.1.3.48) (L-CA) (CD45 antigen)	9; Conservative 0; Mismatches 0; Indels 0; 1 FLYDVIAST 9 27 FLYDVIAST 35	72129; Davies W.; ation of a porcine small intestine)). 0398586AB935ADAE CRC64; ; Score 44; DB 2; Length 74; ; Pred. No. 0.13;	1 9311 PRELIMINARY; PRT; 74 AA. 9311; 9311; -NOV-1996 (TrEMBLrel. 01, Created) -NOV-1996 (TrEMBLrel. 02, Last sequence update) -MAR-2003 (TrEMBLrel. 23, Last annotation update) -Wake-2003 (Tremblarel. 23, Last annotation update) -Wake-2003 (Fig.) -Wate-2003 (Fig.) -Wate-2003 (CD45) (Fragment)Wate-2004 (Pig.) -Wate-2004 (CD45) (Fragment)Wate-2004 (Pig.) -Wate-2004 (CD45) (Fragment)Wate-2004 (Pig.) -Wate-2004 (CD45) (Fragment)Wate-2005 (Pig.) -Wate-2006 (CD45) (Fragment)Wate-2006 (Pig.) -Wate-2006 (CD45) (Fragment)Wate-2006 (Pig.) -Wate-2006 (Pig.)	Q66811 ebola Q66800 ebola Q89569 ebola Q89577 resto Q91dd7 resto Q91dd7 resto Q91dd7 restola P60173 ebola Q7t9e0 sudan P87671 ebola Q11457 ebola Q66810 ebola Q66814 ebola Q66798 ebola P87666 ebola P87666 ebola
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GO:0042098; P:T-cell proliferation; IMP. GO:0046652; P:thymocyte differentiation;

IMP

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Matches
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InterPro; IPR008957; FN_III-like.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 3.
Pfam; PF00102; Y phosphatase; 2.
Pfam; PF00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM000194; PTPC; 1.
                                         Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; PN3; 2.

SMART; SM00404; PTPC; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50853; PN3; 2.

PROSITE; PS50853; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_7; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; M10072;
HSSP; P18031;
GO; GO:0016787
GO; GO:0004725
GO; GO:0006470
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05-JUL-2004
05-JUL-2004
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PROSITE; PS00383; TYR_PHOSPHATASE_1; 1.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 1.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q6LDZ3
                                                                                                                                                                                                                                                                                        InterPro; IPR003961; FN_III.
InterPro; IPR003957; FN_III-like.
InterPro; IPR003595; PTPC motif.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       STRAIN=Sprague-Dawley;
MEDLINE=85201691; PubMed=3158393; DOI=10.1016/0092-8674(85)90063-7;
Thomas M.L., Barclay A.N., Gagmon J., Williams A.F.;
"Evidence from cDNA clones that rat leukocyte-common antigen (T200)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=10116;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE
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NON_TER 878 8
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                                                                                                                                                                                                                                                                                                                                                                                                                    GO:0016787; F:hydrolase activity; IEA.
GO:0004725; F:protein tyrosine phosphatase activity;
GO:0006470; P:protein amino acid dephosphorylation;
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  962
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  109934 MW;
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Pred. No. 0.78;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      19E5FCD7909D4CA6 CRC64;
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  D2E6B7F23D29CC92 CRC64;
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Best Local (
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Proc. Natl.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Leukocyte common antigen precursor (SC Common antigen Ly-5) (CD45) (T200).
Name=Ptprc; Synonyme=Ly-5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-JAN-1988 (Rel. 06, Created)
01-JAN-1988 (Rel. 06, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CD45 MOUSE
                                                                                                                                                                                                                                 Arendt C.W., Ostergaard H.L.;
"Identification of the CD45-associated_116-kDa
the alpha and beta-subunits of alpha-all-relation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDIINE=86313686; PubMed=2944116;
Saga Y., Tung J.-S., Shen F.-W., Boyse E.A.;
"Sequences of Ly-S cDNA: isoform-related diversity
Proc. Natl. Acad. Sci. U.S.A. 83:6940-6944(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-JAN-1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             P06800;
                                                                                                                                                                                                                                                                                                           and T-lymphocyte lineages.";
Proc. Natl. Acad. Sci. U.S.A
                                                                                                                                                                                                                                                                                                                                                         SEQUENCE OF 822-1152 FROM N.A. MEDLINE=87092355; PubMed=2948186;
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                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=86042665; PubMed=3864163;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE OF 10-124
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      REVISIONS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                    NTERACTIONS WITH GANAB AND PRKCSH
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Local Similarity tes 9; Conserv
DEVELOPMENTAL STAGE: Expression is restricted to the hematopole compartment. of development.

Prin: Heavily N- and O-glycosylated.
SINILARITY: Belongs to the protein-tyrosine phosphatase family.

Receptor class 1/6 subfamily.
                                                                                                                                                          CATALYTIC ACTIVITY: Protein
                                                                                                                                                                                              FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, wh
                                                                                    Event=Alternative splicing; Named Comment=A number of isoforms are
                                                                                                           tyrosine + phosphate
SUBUNIT: Binds GANAB and PRKCSH
SUBCELLULAR LOCATION: Type I men
ALTERNATIVE PRODUCTS:
                                                                                                                                                                                   the second one seems to affect the
                                                                                                                                                                                                                                                                                                                                                                                                                                  F.-W.,
                                                                                                                                                                                                             That and beta-subunits of alpha-glucosidass II will Chem. 272:13117-13125(1997):
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                                                               IsoId=P06800-1;
                                                                                   Comment=A number
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tung L
                                                                                                                                                                                                                                                                                                                                   murine T200 (Ly-5) cDNA reveals multiple transcripts within
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ILPYDYNRV
                                                                                                                                                                                                                                                                                                                                                                                                           of Ly-5
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cad. Sci.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                               cDNA.";
. Sci. U.S.A. 82:7360-7363(1985).
                                                                                                                                                                                                                                                                      PubMed=9148925; DOI=10.1074/jbc.272.20.13117;
                                                                                                                                                                                                                                                                                                           Sci. U.S.A. 84:161-165(1987)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Shen F.-W., Boyse E.A.;
i. U.S.A. 84:1991-1991(1987)
                                                              Sequence=Displayed;
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Pred. No. 0.86;
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Sciurognathi; Muridae;
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the Swiss Institute of Bioinformatics and the

EMBL outstation , a collaboration

ņ 엺 -1- SIMILARITY:

Contains

2 fibronectin type III domains. 2 protein-tyrosine phosphatase

protein-tyrosine phosphatase domains.

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MGD; MGI:97810; Ptprc.

MGD; MGI:97810; Ptprc.

GO; GO:0009897; C:external side of plasma membrane; IDA

GO; GO:0009897; C:external side of plasma membrane; IDA

GO; GO:0005515; P:protein binding; IPI.

InterPro; IPR003961; FN III.

R InterPro; IPR000957; FN III-like.

R InterPro; IPR000397; TVR phosphatase.

R InterPro; IPR000397; TYR phosphatase.

R InterPro; IPR000242; Tyr_PP.

R Pfam; PP00041; fn; 3.

Pfam; PP001012; Y phosphatase; 2.

R Pfam; PP00102; Y phosphatase; 2.

R Pfam; PP00102; Y phosphatase; 2.
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Matches
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PROSITE; PRO0703; PRO3; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS00366; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.

Alternative splicing; Antigen; Glycoprotein; H

Alternative splicing; Protein phosphatase; Repeat;
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EMBL; M11934; AAA39461.1; -.
EMBL; M1574; AAA40161.1; -.
EMBL; A23329; A23339.
PIR; A28334; A28334.
                                                                                                                                                                                                                                                                                                                                  Transmembrane.
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Protein-tyrosine phosphatase
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Submitted (UNN-1999) to the EM
EMBL; AUZ43430; CAB96212.1; -.
HSSP; P18052; 1YFO.
GO: GO:0006787; F:byotrolase act
GO: GO:00064725; F:protein tyroo
GO: GO:0006470; P:protein amin
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01-OCT-2000
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01-MAR-2004
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Q918F0;
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                                                                                                                                                                                                                                                                          Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Buteleostei; Neoteleostei;

Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;

Tetradontoidea; Tetraodontidae; Takifugu.
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SEQUENCE
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HSSP; P18052; IYFO.

GO; GO:0016787; F:hydrolase activity; IEA.

GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.

InterPro; IPR0003961; FN III.

InterPro; IPR000387; TYR phosphatase.

InterPro; IPR000342; Tyr PP.

Pfam; PF00102; Y phosphatase; 2.
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01-OCT-2000 (TrEMBLrel. 15,
01-MAR-2004 (TrEMBLrel. 26,
CD45 (EC 3.1.3.48).
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PROSITE; PS50056; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; PR00700; PRTYPHPHTASE. SMART; SM00060; FN3; 2. SMART; SM00194; PTPC; 2.
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Eukaryota; Metazoa; Chordata; (
Actinopterygii; Neopterygii; To
Cyprinidae; Cyprinus.
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GO:0016787; F:hydrolase activity; IEA.
GO:0004725; F:protein tyrosine phosphatase activity; IEA.
GO:0006470; P:protein amino acid dephosphorylation; IEA.
                                                                                                                                                                                                                                                          TaxID=31033;
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148.023 Million cell updates/sec
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Q6TK40
Q6UY66
Q711VM1
O36429
Q8YTF1
Q66429
Q6V105
Q9YMG2
C9YMG2
VSGP_EBOSC
VSGP_EBOSC
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ARLY XYLFT
CD45 MOUSE
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Q6ED61
Q6ED62
Q8MJQ2
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Q91054
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 Q6uy66
Q71vm1
036429
Q8yt51
Q61sf9
Q61sf9
Q6v1q5
Q9ymg2
P87670
011458
P60171
P60171
P60171
Q8jsf6
Q8y166
Q9y1670
                                                                                                                                                                                                                  Q61812
Q64730
P35253
P35254
O36428
Q6t6u0
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P08575
Q91054
Q6ed60
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P59621
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8 lake victor
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Q29311
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AT TOMEWHO	VGP_EBOZ5	VGP_EBOSM	VGP_EBOSB	VGP_EBOIC	VGP_EBOG4	VGP_EBOEC	Q7T9E0	VSGP_EBOSM	VSGP_EBOSB	Q91DD7	Q8JPX7	VSGP_EBORS	VSGP_EBORE	VSGP_EBOIC
	P87666 ebola virus		ebola	ebola	ebola	ebola	Q7t9e0 sudan ebola	ebola	ebola	restor	restor	ebola	ebola	Q66811 ebola virus

ALIGNMENTS

R R R R R R R R R R R R R R R R R R R	r r g g g g g g g g	Db RESU CD45 ID AC	Qy Ma	RL DR DR FT FT	RN RR R	262 252 252 252 252 252 252 252 252 252
, AND ALTERNATIVE SPLI	. 42, . 44, antig nyms=C man). oa; Ch	Db 27 FLYDVIAST 35 RESULT 2 CD45_HUMAN STANDARD; PRT; 1304 AA. AC P08575; Q16614; Q9H0Y6; DT 01_AUG-1988 (Rel. 08, Created)	Query Match 100.0%; Score 44; DB 2; Length 74; Best Local Similarity 100.0%; Pred. No. 0.13; Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0; 1 FLYDVIAST 9	Ilbrary."; Mamm. Genome 7:509-517(1996). EMBL; F14696; CAA23198.1; HSSP; F18052; IP15. NON_TER 1 1 NON_TER 74 74 SEQUENCE 74 AA; 8358 MW; 0398586AB935ADAE CRC64;	NCB1 lax1D=9823; [1] - SEQUENCE FROM N.A. TISSUB=Small intestine; MEDLINE=96327607; PubMed=8672129; Winteroe A.K., Fredholm M., Davies W.; Evaluation and characterization of a porcine small intestine cDNA	Q29311 PRELIMINARY; PRT; 74 AA. Q29311; PRELIMINARY; PRT; 74 AA. Q29311; O1-NOV-1996 (TrEMBLrel. 01, Created) Q1-NOV-1996 (TrEMBLrel. 01, Last sequence update) Q1-MAR-2003 (TrEMBLrel. 23, Last annotation update) Q1-MAR-2003 (TrEMBLrel. 23, Last annotation update) Q1-MAR-2003 (TrEMBLrel. 23, Last annotation update) Q29311 Q29311 PRELIMINARY; PRT; 74 AA. Q29311 Q293

mRNAs en J. Exp.

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This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EMI the European Bioinformatics Institute. There are no restriuse by non-profit institutions as long as its content is modified and this statement is not removed. Usage hy or send an email to respect the statement of the statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=89017162; PubMed=2845400;
Charbonneau H., Tonks N.K., Walsh K.A., Fischer :
"The leukocyte common antigen (CD45): a putative
protein tyrosine phosphatase.";
Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
"Distinct functional roles of the two intracellular phosphatase domains of the receptor-linked protein tyrosine phosphatases LCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Complete exon-intron organization antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=89009812; PubMed=2971730;
Hall L.R., Streuli M., Schlossman S.F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE OF 191
TISSUE=Placenta
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EMBO J. 6:1251-1257(1987).
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J. Exp. Med. 166:1548-1566(1987).
                                                                                                                                                                                                                                                                                                                                      IsoId=P08575-2; Sequence=VSP_007780;
PTM: Heavily N- and O-glycosylated.
SIMILARITY: Belongs to the protein-tyrosine phosphatase Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains.
SIMILARITY: Contains 2 protein-tyrosine phosphatase doma DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tyrosine + phosphate.
SUBUNIT: Binds GANAB and PR
SUBCELLULAR LOCATION: Type
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       first one.

CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Event=Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
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    Y00638;
Y00062;
M23492;
M23496;
M23466;
M23467;
M23468;
M23469;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     IsoId=P08575-1; Sequence=Displayed;
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CTION: Required for T-cell activation through the cartivation through the many serion activation through the cartivation through th
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AAD15273.2

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                                                                                                                                                                                                                  (See http://www.isb-sib
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A and
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      Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 2
PRINTS; PR00700; PRTYPHPHTASE.
PROSITE; PS00853; FN3; 2.
PROSITE; PS00053; TYR PHOSPHATA;
PROSITE; PS00056; TYR_PHOSPHATA;
PROSITE; PS50056; TYR_PHOSPHATA;
                  CARBOHYD
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GO: GO:0005807; C:integral to plasma membrane; TAS.
GO: GO:0005001; F:transmembrane receptor protein tyrosine pho. .
GO: GO:0007166; P:cell surface receptor linked signal transdu. .
InterPro; IPR003961; FN III.
InterPro; IPR003961; FN III.
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CARBOHYD
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IPR000387; TYR_phosphatase.
IPR000242; Tyr_PP.
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3; TVR_PHOSPHATASE_1; 2.
36; TVR_PHOSPHATASE_2; 2.
55; TVR_PHOSPHATASE_PTP; 2.
55; TVR_PHOSPHATASE_PTP; 2.
plicing; Antigen; Glycoprotein; Hydrolase;
nn; Protein phosphatase; Repeat; Signal; T-c
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Cytoplasmic (Potential).

Fibronectin type-III 1.

Fibronectin type-III 2.
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Name=2

EMBL; EMBL; EMBL; EMBL; EMBL; EMBL;

domains

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Best Local
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HSSP; D18052; 1YFO.
G0; G0:0016787; F:hydrolase activity; IF
G0; G0:0004725; F:protein tyrosine phosp
G0; G0:0006470; P:protein amino acid de
Pfam; PF00102; Y_phosphatase; 2.
PTINTS: PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                            Q6ED60;
25-OCT-2004
25-OCT-2004
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CONFLICT
CONFLICT
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SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

PROSITE; PS50853; FN3; 1.

PROSITE; PS500383; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CD45 homolog.

Heterodontus francisci (Horn shark).

Eukaryota; Metazoa; Chordata; Craniata; Vertebr

Elasmobranchii; Galeomorphii; Heterodontoidea;

Heterodontidae; Heterodontus.
                                                                                                                      Aotus vociferans (Spix's owl monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Okumura M., Matthews
Submitted (AUG-1995)
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      SEQUENCE FROM N.A. PubMed=15245371;
                                                                                         NCBI_TaxID=57176;
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8; Conserv
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9; Conserv
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(TrEMBLrel. 28, 1
(TrEMBLrel. 28, 1
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Pred. No. 3
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C->S: Loss of activity.
L -> P (in Ref. 1).
P -> L (in Ref. 1).
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acid dephosphor
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3.7;
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Query Match
Best Local S
Matches 8
                          Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; motif; 2.

SMART; SM00404; PTPC; motif; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS500853; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE PTP; 2.
                                                                                                                                                                                                     Tissue Antigens 64:165-172(2004).

EMBL; AY445817; AA506902.1; -.
GO; GO:0004725; F:protein tyrosine phos;
GO; GO:0006470; P:protein amino acid de;
InterPro; IPR003961; FN_III.
InterPro; IPR003957; FN_III-1ike.
InterPro; IPR003595; PTPC motif.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
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Q6ED61;
25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=37293;
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SEQUENCE
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SMART; SM00194; PTPC; 2.
SMART; SM00404; PTPC; 2.
SMART; SM00404; PTPC; 2.
PROSITE; PS50853; FTR PHOSPHATASE 1; 2.
PROSITE; PS500383; TYR PHOSPHATASE 2; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_PTP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Aotus nancymaae (Ma's night monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Comparative ana vs. human.";
Tissue Antigens
                                                                                                                                                                                                                                                                                                                                                                            vs. human."
                                                                                                                                                                                                                                                                                                                                                                                                           Montoya G.E., Vernot J.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                              PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                          "Comparative analysis
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8; Conserv
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analysis of CD45 protein in p
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146929 MW;
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D45 protein in p
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Last
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Pred. No. 18;
0; Mismatches
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D0EB0C640D1D17E8 CRC64;
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annotation update)
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id dephosphorylation; ]
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Aotinae; Aotu
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Matches 8
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Matches 8
                            QBMJQ2;
QBMJQ2;
01-OCT-2002 (TrEMBLrel. 22, Created)
01-OCT-2002 (TrEMBLrel. 22, Last sequenc
01-WAR-2004 (TrEMBLrel. 26, Last annotat
3 CD45 phosphatase (Fragment).
S Actus vociferans (Spix's owl monkey).
S Actus vociferans (Chordata; Craniata;
                                                                                                                                                                                                                                                                                                            InterPro; IPR00396; PN III.
InterPro; IPR08995; PN III.
InterPro; IPR08995; PN III.like.
InterPro; IPR00395; PNFo_motif.
InterPro; IPR003595; PTPC_motif.
InterPro; IPR003595; PTPC_motif.
InterPro; IPR00367; TYR phosphatase.
InterPro; IPR000242; TYr_PP.
Pfam: Prococcities:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q6ED62;
25-OCT-2004
25-OCT-2004
25-OCT-2004
               Mammalia; Eutheria;
NCBI_TaxID=57176;
                                                                                                                                                                                                                                 SMART; SM00194; PTPC; 2.
SMART; SM00404; PTPC; motif; 2.
PROSITE; PS50853; FN3; 2.
PROSITE; PS00383; TYR PHOSPHATASE 1; 2.
PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
PROSITE; PS50055; TYR PHOSPHATASE PTP; 11.
                                                                                                                                                                                                                                                                                       Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_Dhosphatase;
PRINTS; PR00700; PRTYPHPHTASE;
SMART; SM00060; FN3; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Aotus nigriceps (Black-headed owl monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae; Aotinae; Aotus.
                                                                                                                                                                                                                                                                                                                                                                                               vs. human.";
Tissue Antigens
  SEQUENCE FROM N.A.
                                                                                                 Q8MJQ2
                                                                                                                                                                                                                                                                                                                                                                                                               Montoya G.E., Vernot J.P., Patarroyo M.E. "Comparative analysis of CD45 protein in
                                                                                                                                                                                                                                                                                                                                                                                                                                 PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
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                                                                                                                                                              μ
                                                                                                                                                                              Similarity
8; Conserv
                                                                                                                                             FLYDTIAST 1225
                                                                                                                                                               FLYDVIAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FLYDTIAST
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                                                                                                                                                                                                                  1303
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRELIMINARY;
                                                                                                                                                                                                                  AA;
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                                                                                                                                                                                       90.9%;
                                                                                                                                                                                                                  146586 MW;
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Last sequence up
Last annotation
                                                              Last sequence up
                                                                                                                                                                              0;
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Pred. No. 18;
0; Mismatches
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Pred.
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                          Craniata; Vertebrata; Euteleostomi; Platyrrhini; Cebidae; Aotinae; Aotus.
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18;
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RESULT 8
P94296
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                                                                                                                                                     RESULT
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Best Local S
Matches 8
                                                                                                                                                                                                                                               Query Match
Best Local Similarity
Matches 7; Conserv
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Q9PEM5;
10-OCT-2003 (Rel. 4
10-OCT-2003 (Rel. 4
25-OCT-2004 (Rel. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          P94296
P94296;
01-MAY-1997
                                                                                                                                     XYLFA
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Submitted (MAR-2001) to the
EMBL; AF364096; AAM48512.1;
HSSF; P18052; 1P15.
          Name=argH; OrderedLocusNames=Xf1003;
Xylella fastidiosa.
Bacteria; Proteobacteria; Gammaproteo
                                                                                                                                                                                                                                                                                                      PRINTS; PRO1758; CAPSULEPROTB.
NON TER 1 1
SEQUENCE 300 AA; 33317 MW;
                                                                                                                                                                                                                                                                                                                                             GO; GO:0016020; C:membrane; IEA.
GO; GO:0045227; P:capsule polysaccharide
InterPro; IPR008337; CapB.
                                                                                                                                                                                                                                                                                                                                                                                       Ito M., Krulwich T.A.;
Submitted (JUN-1996) to the
EMBL; U60883; AAB41841.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacillus firmus.
Bacteria; Firmicutes;
NCBI_TaxID=1399;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-MAY-1997 (TrEMBLrel. 03, 01-MAY-1997 (TrEMBLrel. 03, 01-OCT-2003 (TrEMBLrel. 25,
                                                    Argininosuccinate
                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN=OF4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CapB (Fragment).
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Pfam; PF00102; Y_phosphatase; 1.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GO; GO:0004725; F:protein tyrosine phosphatase activity; GO; GO:0006470; P:protein amino acid dephosphorylation; InterPro; IPR000387; TYR phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Name=capB
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8; Conserv
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365 AA;
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                                                                                                                         STANDARD;
                                                    42, Created)
42, Last sequence update)
45, Last annotation updat
lyase (EC 4.3.2.1) (Argin
Xylella.
                                                                                                                                                                                              271
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                                                                                                                                                                                                                                                               86.4%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bacillales; Bacillaceae; Bacillus.
             Gammaproteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Patarroyo M.E.;
e EMBL/GenBank/DDBJ databases
                                                                                                                                                                                                                                                                                                                                                                                                       EMBL/GenBank/DDBJ databases
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Last annotation update)
                                                                                                                                                                                                                                                  2;
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                                                                                                                                                                                                                                                  Score 38; DB Pred. No. 11; 2; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Created)
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Pred. No. 8.
                                                                                                                                                                                                                                                                                                         602BBBC2501756AB CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BA950C4E56E27902 CRC64;
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                                                  n update)
(Arginosuccinase)
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             Xanthomonadales;
                                                                                                                                                                                                                                                                             Length 300;
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Best Local
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                                                                            HAMAP; MF 00006; ; 1.

InterPro; IPR003031; D_crystallin.
InterPro; IPR003036; Fumarate_lyase.
InterPro; IPR000362; Fumarate_lyase.
InterPro; IPR000348; L-Aspartase-like.
Pfam; PF00206; Lyase 1; 1.
PRINTS; PR00145; DCRYSTALLIN.
PRINTS; PR00145; DCRYSTALLIN.
PRINTS; PR00145; FUNGATELYASE.
PROSITE; PS00163; FUMGATELYASE; 1.
Arginine biosynthesis; Complete proteome; Lyase.
Arginine biosynthesis; Complete proteome; Lyase.
Arginine biosynthesis; Complete proteome; Lyase.
                                                                                                                                                                                                                                                                                                                  -!- PATHWAY: Arginine biosynthesis; eighth (last) step.
-!- SUBCELLULAR LOCATION: Cytoplasmic (Probable).
-!- SIMILARITY: Belongs to the lyase 1 family. Argining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=2371;
                                                                                                                                                                                           EMBL; AE003938; AAF83813.1; PIR; B82735; B82735.
                                                                                                                                                                                  HSSP; P24058; 1DCN.
                                                                                                                                                                                                                                                                                                         subfamily.
                                                                                                                                                                                                                                                                                                                                               arginine.
38
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                                        Similarity 7; Conser
 FLYDITAST 46
                   FLYDVIAST 9
                                        Conservative
                                                86.4%;
77.8%;
                                       Score 38; DB Pred. No. 17; 1; Mismatches
                                                           DB 1; Length 445;
                                                                                                                                                                                                                                                                                                                   Argininosuccinate lyase
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RESULT 10 ARLY_XYLFT

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RESULT 11
CD45_MOUSE
ID CD45_M
AC P06800
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                                                                                                                                                                                             Matches
                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                    Pfam; PF00206; Lyase 1; 1.

PRINTS; PR00145; DCRYSTALLIN.

PRINTS; PR00149; FUMRATELYASE.

PROSITE; PS00163; FUMARATE LYASES; 1.

Arginine biosynthesis; Complete prote
SEQUENCE 445 AA; 48972 MW; 3F0D3E
                                                                                                                                                                                                                                                                                                                                                                 HAMAP; MF_00006; -; 1.
InterPro; IPR003031; D crystallin.
InterPro; IPR00362; Fumarate_lyase.
InterPro; IPR008948; L-Aspartase-like.
Pfam; PF00206; Lyase_1; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=22421331; PubMed=12533478;
DOI=10.1128/JB.185.3.1018-1026.2003;
Van Sluys M.A., de Oliveira M.C., Mo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Name=argH; OrderedLocusNames=PD0295;
Xylella fastidiosa (strain Temecula1 / ATCC 700964).
Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ARLY XYLFT STANDARD; PRT; 445 AA.
P59621;
10-OCT-2003 (Rel. 42, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
Argininosuccinate lyase (EC 4.3.2.1) (Arginosuccinase) (ASAL)
CD45_MOUSE
P06800;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    -!- PATHWAY: Arginine biosynthesis; eighth (last) step.
-!- SUBCELLULAR LOCATION: Cytoplasmic (Probable).
-!- SIMILARITY: Belongs to the lyase 1 family. Argininosuccinate lyase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               J. Bacteriol. 185:1018-1026(2003).
-!- CATALYTIC ACTIVITY: (N(omega)-L-arginino)succinate =
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Comparative analyses of the complete genome disease and citrus variegated chlorosis strai
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  EMBL; AE012554; AA028180.1; -. HSSP; P24058; 1DCN.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 fastidiosa.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    subfamily.
                                                                                                                   38
                                                                                                                                                                                           Similarity 7; Conserv
                                                                                                                                                       FLYDVIAST 9
                                                                                                                                                                                             Conservative
                                                                                                                   46
                                                                                                                                                                                                               86.4%;
77.8%;
                                                                                                                                                                                                               Score 38;
Pred. No.
                                                                                                                                                                                                                                                                        proteome; Lyase.
3F0D3EC72FE42899 CRC64;
                                                                                                                                                                                               Mismatches
                        1152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     enome sequences of Pierce'
strains of Xylella
                                                                                                                                                                                                                                  DB 1;
                                                                                                                                                                                                                                  Length 445;
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EMBL;
                                                                                                                                                                                                                                                                                                                                                              MEDLINE-97294/40; Function of the CD45-associated 116-kDa and 80. "Identification of the CD45-associated 116-kDa and 80. "Identification of the CD45-associated 116-kDa and beta-subunits of alpha-glucosidase II."

J. Biol. Chem. 272:13117-13125(1997).

J. Biol. Chem. 272:13117-13125 (1997).

I- FUNCTION: Required for T-cell activation through receptor. The first PTPase domain has enzymatic a receptor. The substrate spec
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               REVISIONS.
                                  use by non-profit institutions as long modified and this statement is not removed. entitles requires a license agreement (See or send an email to license@isb-sib.ch).
                                                                                                                    This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MBDLINE=87092355; PubMed=2948186; Raschke W.C.; "Raschke W.C.; "Cloned murine T200 (Ly-5) cDNA reveals multiple transcripts within and T-lymphocyte lineages."; proc. Natl. Acad. Sci. U.S.A. 84:161-165(1987).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=86313686; PubMed=2944116;
Saga Y., Tung J.-S., Shen F.-W., Boyse E.A.;
"Sequences of Ly-5 cDNA: isoform-related diversity
Proc. Natl. Acad. Sci. U.S.A. 83:6940-6944(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        common antigen Ly-5) (CD45)
Name=Ptprc; Synonyms=Ly-5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-JAN-1988 (Rel.
01-JAN-1988 (Rel.
05-JUL-2004 (Rel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=97294720; PubMed=9148925;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             INTERACTIONS WITH GANAB AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Boyse E.A.;
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                                                                                                                                       DEVELOPMENTAL STAGE: Expression is restricte compartment of development.

PTM: Heavily N- and O-glycosylated.

SIMILARITY: Belongs to the protein-tyrosine Receptor class 1/6 subfamily.

SIMILARITY: Contains 2 fibronectin type III SIMILARITY: Contains 2 protein-tyrosine phos
                                                                                        European
                                                                                                                                                                                                                                                                                       tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH.
SUBCELLULAR LOCATION: Type I men
ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                     Name=1;
                                                                                                                                                                                                                                                                                                                                          first one.
CATALYTIC ACTIVITY: Protein tyrosine
                                                                                    SWISS-PROT entry is copyright. It is produced through a ceen the Swiss Institute of Bioinformatics and the EMBL European Bioinformatics Institute. There are no restrict
                                                                                                                                                                                                                                                              Event=Alternative splicing; Named Comment=A number of isoforms are
                                                                                                                                                                                                                                                                                                                                                            the
 M14342;
M11934;
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Acad. Sci.
 AAA39458.1;
AAA39461.1;
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.. Sci. U.S.A. 82:7360-7363(1985)
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. 06, Last sequence update)
. 44, Last annotation update)
antigen precursor (EC 3.1.3.48)
y-5) (CD45) (T200).
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i. U.S.A. 84:1991-1991(1987)
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SE: Expression is re
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                                                                                                                                          fibronectin type III domains. protein-tyrosine phosphatase domains.
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Institute. There are no restrictions
Institute. There are no restrictions as long as its content is in
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Sciurognathi; Muridae;
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Q61812 PRELIMINARY; P. Q61812; O1-NOV-1996 (TrEMBLrel. 01, Cre. 01-NOV-1996 (TrEMBLrel. 02, Last 01-OCT-2003 (TrEMBLrel. 25, Last Lymphocyte common antigen precul Name=Ptpre; Synonyms=Ly5; Mus muscults (Mouse).

Eukaryota; Metazoa; Chordata; C1 Mammalia; Butheria; Rodentia; Sc NCBI TaxID=10090; [1]
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GO; GO:0009897; C:external
GO; GO:0005515; F:protein l
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PIR; A23329; A23329.
PIR; A28334; A28334.
HSSP; P18052; 1YFO.
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IPR008957; FN III-like.
IPR000387; TYR phosphatase.
IPR000242; TYr PP.
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InterPro; IPR003961; FN III.

InterPro; IPR000387; TYR phosphatase.

InterPro; IPR000387; Tyr PP.
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Pfam; PF00102; Y phosphatase; 2.
Pfam; PF00102; Y phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00194; PTPC; 2.
PROSITE; PS50853; FN3; 2.
PROSITE; PS50853; TYR_PHOSPHATASE_1; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                      Q64730;
Q1-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-NOV-1996 (TrEMBLrel. 25, Last annotation update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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SEQUENCE
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MEDLINE=89197920; PubMed=2522930;
Johnson N.A., Meyer C.M., Pingel
                                                                                                                                                                            SEQUENCE FROM N.A.
MEDLINE-87260986; PubMed=2955416;
Thomas M.L., Reynolds P.J., Chain A.,
"B-cell variant of mouse T200 (Ly-5):
              EMBL;
                                        "Sequence conservation in potential regulatory and human leukocyte-common antigen gene."; J. Biol. Chem. 264:6220-6229(1989).
EMBL; M23148; AAA39418.1; JOINED.
                                                                                                                                                                                                                                            Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=10090;
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EMBL; M92933; AAA39459.1; -.
HSSP; P18052; 1YFO.
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Zebedee S.L, Barritt D.S., Raschke W.
"Comparison of mouse Ly5 A and Ly5 B
                                                                                                                                                                  splicing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     alleles.";
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uman leukocyte-common antigen gene.";
ol. Chem. 264:6220-6229(1989).
M23148; AAA39418.1; JOINED.
M23149; AAA39418.1; JOINED.
M23150; AAA39418.1; JOINED.
M23151; AAA39418.1; JOINED.
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Rodentia; Sciurognathi; Muridae; Murinae; Mus
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N; 25C3CB61AF4350CE CRC64;
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Pfam; PF00041; fn3; 3.
Pfam; PF00102; Y_phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM000194; PTPc; 2.
                    Will C., Feldmann
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GO; GO:0004725; F:protein tyrosine phosphatase activity;
GO; GO:0006470; P:protein amino acid dephosphorylation; I
InterPro; IPR0003961; FN_III.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000387; TYR_PP.
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Marburg-like viruses.
NCBI_TaxID=33727;
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EMBL; M23145; AAA39418
EMBL; M23158; AAA39418
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DT 05-JUL-2004 (
DE Structural gl
GN Names(B);
OS Marburg virus
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J. Virol. 67:1203-1210(1993).
-I- FUNCTION: Structural protein that forms the virion spike and which is responsible for binding to target cells and subsequent fusion of the viral and host-cell membranes.
Structural glycoprotein precursor (Virion spike glycoprotein). Name=GP; Marburg virus (strain Popp).
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GlycoSuiteDB; P35253; -.
InterPro; IPR002561; Filo_gl
Pfam; PF01611; Filo_glycop;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and foentities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collaboratic between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on it use by non-profit institutions as long as its content is in no we use by non-profit institutions as long as its content is in no we
                                                                                                                                                                                         SEQUENCE
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SIMILARITY: Belongs to the filoviruses glycoprotein family.
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SUBCELLULAR LOCATION: Type
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. MEDILINE=92265932; PubMed=8495737; DOI=10.1016/0014-5793(93)81476-G; Bukreyev A.A., Volchkov V.E., Blinov V.M., Netesov S.V.; Bukreyev A.A. Wolchkov V.M., Netesov S.V.; Bukreyev A.A. Wolchkov V.M., Netesov S.V.; Bukreyev S.V.; Bukreyev A.A. Wolchkov V.M., Netesov S.V.; Page 10.1016/0014-5793 (93)81476-G; Bukreyev A.A. Wolchkov V.M., Netesov S.V.; Bukreyev A.A., Netesov S.V.; Bukreyev A.A. Wolchkov V.M., Netesov S.V.; Bukreyev A.A., Netesov S.V.; Bukreyev S.V.; Bukreyev A.A., Netesov S.V.; Bukreyev S.V.; Bukrey
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SUBUNIT: Homotrimer.

SUBCELLULAR LOCATION: Type I membrane protein.

PTM: O-glycosylated (Probable).

SIMILARITY: Belongs to the filoviruses glycoprotein family.
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Query Match Best Local S Matches 8

Similarity 8; Conserv

84.1%;

Conservative

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Score 37; DB Pred. No. 43; 0; Mismatches

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Length 681; Indels

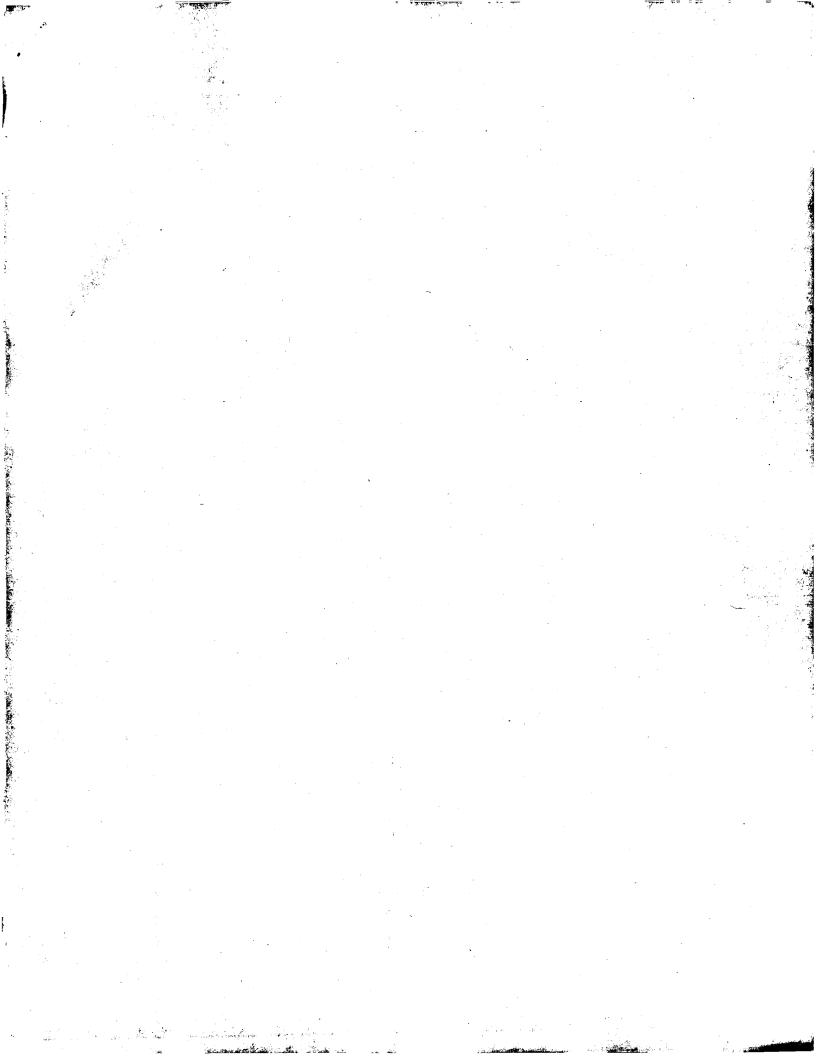
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Qy 1 FLYDVIAST 9
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Search completed: May 3, 2005, 05:58:21
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ID Q6PJ
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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F. Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Frange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Mozley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Pahey J., Helton E., Ketteman M., Madan A., Gunaratne P.H.,
RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Mhiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Alsesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Alsesley A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Jones S.J. Marra M.A.,
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01-MAR-2004
                                                Mus musculus
                                                                                                                                                                                                                                                                                                                                      'Eam; Frycolo; PRTYPHPHIAD...

PRINTS; PR00700; PN3; 2.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 1.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50855; TYR PHOSPHATASE_PTP; 1.

PROSITE; PS50955; TYR PHOSPHATASE_PTP; 1.
                                 length
                                                                                                                                 Q8C6Q7
                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 1.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GO; GO:000475; F:protein tyrosine
GO; GO:0006470; P:protein amino aci
InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
InterPro; IPR008957; FN III-like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Submitted (SEP-2001) to the EMBL; BC014239; AAH14239.1; HSSP; P18031; 1AAX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Strausberg R.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         "Generation and initial analysis of and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99:166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Primary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Jones S.J., Marra M.A.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PTPRC protein
Name=PTPRC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                   636
-2003 (TrEMBLrel. 23, Last sequence update)
-2004 (TrEMBLrel. 26, Last annotation update)
sculus 2 days pregnant adult female oviduct cDNA, RIKEN full-
enriched library, clone:E330015023 product:protein tyrosine
atase, receptor type, C, full insert sequence. (Fragment).
                                                                                                                                                                                                                                                 μ
                                                                                                                                                                                                                                                                                Similarity 9; Conser
                                                                                                                                                                                                                                             ILPYDYNRV
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                                                                                          (TrEMBLrel.
                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1AAX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             B-Cells;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (Fragment).
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                                                                                                                                                                                                               644
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                                                       23,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      tyrosine phosphatase activity; IEA. amino acid dephosphorylation; IEA.
                                                                                                                                                                                                                                                                             0,
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                                                                                                                                                                                                                                                                                              Score
Pred.
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                                                                                                                                                                                                                                                                                                                                        8A9A863827BD69E6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         99:16899-16903 (2002)
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                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                          No.
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                                                                                                                                                                                                                                                                                         DB 2;
0.67;
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                                        RIKEN full-
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C STRAIN-578L/6J; TISSUE-Oviduct;

A Adachi J. Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,

A Hayashida S., Furuno M., Hanagaki T., Hara A., Hashizume W.,

A Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,

A Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,

A Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,

A Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,

Kurihara C., Matsuyama T., Olno M., Olsato N., Okazaki Y.,

A Kurihara C., Matsuyama T., Sakai K., Sakazume N., Sano H.,

Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,

Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tanaka T.,

Charatu A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;

Bubmitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
         9999999
                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=C57BL/63; TISSUE=Oviduct;

MEDLINE=20539913; PubMed=11076861; DOI=10.1101/gr.152600;

Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P.,

Somio H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M.,

Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A.,

Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K.,

Fujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M.,

Yoneda Y., Ishikawa T., Ozawa K., Tanaka T., Matsuura S., Kawai J.,

Okazaki Y., Muramatsu M., Inoue Y., Kira A., Hayashizaki Y.,

"RIKEN integrated sequence analysis (RISA) system=384-format

sequencing pipeline with 384 multicapillary sequencer.";
                                                                                                                                      EMBL;
HSSP;
                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A. STRAIN=C57BL/6J; T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN-C57BL/6J; TISSUE-Oviduct;
MEDLINE-2049374, PubMed=11042159; DOI=10.1101/gr.145100;
Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K.,
Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;
"Normalization and subtraction of cap-trapper-selected cDNAs
prepare full-length cDNA libraries for rapid discovery of new
genome Res. 10:1617-1630(2000).
MBL; AK054056; BAC35638.1; -. SSP; P18052; 1YFO.
ISSP; MG1:97810; Ptprc.
IGD; MG1:97810; Ptprc.
IGD; GO:0009897; C:external side of plasma me in the interval of the membrane; TAS.
IGC:00016021; C:integral to membrane; TAS.
IGC:00030183; P:Brotein binding; IPI.
IGC:00303183; P:B-cell differentiation; IMP.
IGC:0030317; P:T-cell differentiation; IMP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the RIKEN Genome Exploration Research Group "Analysis of the mouse transcriptome based o 60,770 full-length cDNAs.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Oviduct;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The FANTOM Consortium,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     STRAIN=C57BL/6J; TISSUE=Oviduct;
MEDLINE=99279253; PubMed=10349636; DOI=10.10
Carminci P., Hayashizaki Y.;
"High-efficiency full-length cDNA cloning.";
Meth. Enzymol. 303:19-44(1999).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Nature 420:563-573(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  "Functional annotation of a Nature 409:685-690(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RIKEN FANTOM Consortium;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  STRAIN=C57BL/6J; 7
MEDLINE=21085660;
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Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Oviduct;
; PubMed=11217851;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        full-length mouse cDNA collection.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                        : plasma me
brane; TAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DOI=10.1038/35055500
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DOI=10.1016/S0076-6879(99)03004-9;
                                      IMP.
                                                                                          membrane;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 p Phase I & II
on functional
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Carninci P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               annotation of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Team;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          new genes.";
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GO:0042098; P:T-cell proliferation; IMP. GO:0046652; P:thymocyte differentiation; IMP.

2:

Length 962

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PRESCRIPTION OF RESCRIPTION OF RESCR
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Best Local
                                                                                                                                          InterPro; IPR000242; Tyr Pp.
Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y phosphatase; 2
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00404; PTPC; motif; 2.
                                                                                                                                                                                                                                                                                  InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-ike.
InterPro; IPR003959; PTPC motif.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
                                                                                                                                                                                                                                                                                                                                                                                                             EMBL; M10072; AAA41513.1; -.
HSSP; P18031; 1ASY.
GO: GO:0016787; F:hydrolase activity; IEA.
GO: GO:0004725; F:protein tyrosine phosphatase activity;
GO: GO:0006470; P:protein amino acid dephosphorylation; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
STRAIN-Sprague-Dawley;
MEDLINE-85201691; PubMed=3158393; DOI=10.1016/0092-8674(85)90063-7;
Thomas M.L., Barclay A.N., Gagnon J., Williams A.F.;
"Evidence from cDNA clones that rat leukocyte-common antigen (T200) spans the lipid bilayer and contains a cytoplasmic domain of 80,000
                                   SMART; SM00404; PTPC motif; 2.

PROSITE; PS50853; F13; 2.

PROSITE; PS60383; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR PHOSPHATASE PTP; 2.

HVdrolage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q6LDZ3;
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SMART; SM00066; FN3; 2.
SMART; SM00066; FY3; 2.
PROSITE; PS50853; FY3; 2.
PROSITE; PS50853; TYR PHOSPHATASE 1; 1.
PROSITE; PS50056; TYR PHOSPHATASE 2; 1.
PROSITE; PS50055; TYR PHOSPHATASE PTP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF00041; fn3; 3.
Pfam; PF00102; Y phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cell 41:83-93(1985)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Rattus norvegicus (Rat).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Leukocyte common antigen.
Name=L-CA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q6LDZ3
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InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
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InterPro; IPR003961; FN_III.
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  962
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           878 AA;
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  AA;
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  109934
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  MW;
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Last annotation update)
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N
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  D2E6B7F23D29CC92 CRC64;
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RESULT
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Best Local (
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"Identification of the CD45-associated_116-kDa_and_80-kDa_proteins the TIDha-and beta-subunits of alpha-glucosidase II.";
J."Biol"—Chem. 72:73:1317-13125(1997).
-!- DEVELOPMENTAL STAGE: Expression is restricted compartment...of..development.
-!- PIM: Heavily N- and O-glycosylated.
-!- SIMILARITY: Belongs to the protein-tyrosine Receptor class 1/6 subfamily.
                                                                                    Saga Y., Tung J.-S., Shen F.-W., Boyse E.A.; "Sequences of Ly-5 cDNA: isoform-related diversity Proc. Natl. Acad. Sci. U.S.A. 83:6940-6944(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=86313686; PubMed=2944116;
Saga Y., Tung J.-S., Shen F.-W., Boyse E
"Sequences of Ly-5 cDNA: isoform-related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      01-JAN-1988 (Rel. 06, Created)
01-JAN-1988 (Rel. 06, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
105-JUL-2004 (Rel. 44, Last annotation update)
Leukocyte common antigen precursor (EC 3.1.3.48) (L_CA) (Lymphocyte Common antigen Ly-5) (CD45) (T200).
Name=Ptprc; Synonyms=Ly-5;
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                                                                                                                                                                                                                                                                                                                   and T-lymphocyte lineages.";
Proc. Natl. Acad. Sci. U.S.A. 84:161-165(1987).
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[1]
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Mammalia; Eutheria;
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P06800;
                                                                                                                                                          first one.
-!- CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)0 = protein
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                                                                                                                                                                                                                                                                                                                                                          Raschke W.C
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Proc. Natl. Acad.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=86042665;
                                                                                                                                                                                                    FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, wh
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                                                             IsoId=P06800-1; Sequence=Displayed
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:1. Acad. Sci. U.S.A. 84:1991-1991(1987)
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                                                                                                                                                                                                                                                                                                                                                                                                       cDNA.";
. Sci. U.S.A. 82:7360-7363(1985)
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-!- SIMILARITY: Contains

2 fibronectin type III domains.
2 protein-tyrosine phosphatase

protein-tyrosine phosphatase domains.

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Pfam; PF00102; Y_Dhosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50853; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EMBL; M14342; AAA39458.1; -.
EMBL; M11934; AAA39461.1; -.
EMBL; M15174; AAA40161.1; -.
PIR; A23329; A23329.
PIR; A23329; A2334.
HSSP; P18052; 11F0.
MGD; MGI: 97810; Ptprc.
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GO; GO:0005515; F:protein binding; IF
InterPro; IPR003961; FN III-1ike.
InterPro; IPR008957; FN III-1ike.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr_PP.
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Protein-tyrosine phosphatase
Phosphocysteine intermediate
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R GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

R GO; GO:000470; P:protein amino acid dephosphorylation; IEA.

R InterPro; IPR003961; FN III.

R InterPro; IPR00387; TYR phosphatase.

InterPro; IPR000387; TYR phosphatase.

InterPro; IPR000242; Tyr PP.

Pfam; pF00102; Y phosphatase; 2.

R FART; SM00060; FN3; 2.

RR SMART; SM00194; PTPC; 2.

RR SMART; SM00194; PTPC; 2.

RR PROSITE; PS50853; FN3; 1.

RR PROSITE; PS50853; FN3; 1.

RR PROSITE; PS50855; TYR PHOSPHATASE 1; 2.

RR PROSITE; PS50855; TYR PHOSPHATASE 7; 2.
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Q9IBD8;
01-OCT-2000
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01-MAR-2004
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Q918F0;
01-OCT-2000
TISSUE-Spleen;
Diaz del Pozo E.M., Beverley P.C., Timon M.;
Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.
EMBL; AJ243430; CAB96212.1; -
HSSP; P18052; 1YFO.
GO; GO:00167787; F:hydrolase activity; IEA.
GO; GO:0004725; P:protein tyrosine phosphatase activity; IEA.
GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.
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"Molecular cloning of carp (Cypring) leucocyte cell-derived chemotaxin 2, glia maturation factor beta, CD45 and lysozyme C by us of suppression subtractive hybridisation.";

Fish Shellfish Immunol. 10:643-650(2000).

EMBL; AB031424; BAA92179.1; -...

EMBL; AB031424; BAA92179.1; -...

HSSP; P18052; 1YFO.
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Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi;

Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;

Cyprinidae; Cyprinus.

NCBI_TaxID=7962;
                                                                                                                                                                                                                                                                                                                  CD45 (EC 3.1.3.48).

Name=PTPC;

Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).

Fugu rubripes (Japanese pufferfish) (Takifugu rubripes).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;

Acanthomorpha; Acanthopterygii; Percomorpha; Tetradontiformes;

Tetradontoidea; Tetraodontidae; Takifugu.
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01-OCT-2000 (TrEMBLrel.
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Best Local
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Best Local :
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                                                                                                                                                                                                               SMART; SM00060; FN3; 1.

SMART; SM00194; PTPG; 2.

PROSITE; PS5085; FN3; 1.

PROSITE; PS500383; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 1.
Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.
GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Diaz del Pozo E.M., Beverley Submitted (JUN-1999) to the I EMBL; AJ243429; CAB96211.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fugu rubripes (Japanese pufferfish) (Takifugu rubripes) Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eut Actinopterygii; Neopterygii; Teleostei; Buteleostei; Ne Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodont Tetradontoidea; Tetraodontidae; Takifugu.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-OCT-2000 (TrEMBLrel. 15, 01-OCT-2000 (TrEMBLrel. 15, 01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                       SEQUENCE
                                                                                                                                                                                  Hydrolase;
SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
InterPro; IPR000387; TYR_phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Spleen;
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01-OCT-2000
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PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
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Pfam; PF00102; Y_phosphatase;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=31033;
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InterPro; IPR008957; FN III-like.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr_PP.
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                                          Similarity 9; Conserv
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1246 AA;
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                                               Conservative
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EMBL/GenBank/DDBJ
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Last annotation update)
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CD45.
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Pred. No. 1.1;
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                                          Mismatches
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                                                     This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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P04157;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE-87275817; PubMed-2440674; Barclay A.N., Jackson D.I., Williams A.F.; Barclay A.N., Jackson D.I., Williams A.F.; "Lymphocyte specific heterogeneity in the rat leucocyte common (T200) is due to differences in polypeptide sequences near the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Leukocyte common antigen variant 4 precursor (CD45) (T200) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     01-NOV-1986 (Rel. 03, Created)
01-AUG-1988 (Rel. 08, Last sequence up
05-JUL-2004 (Rel. 44, Last annotation
                                                                                                                                                                                                                                                                                                                                                                                                    +
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (T200) spans the 80,000 Mr.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE-85201691; PubMed=3158393; DOI=10.1016/0092-8674(85)90063-7; Thomas M.L., Barclay A.N., Gagnon J., Williams A.F.; "Evidence from cDNA clones that the rat leukocyte-common antigen (T200) spans the lipid bilayer and contains a cytoplasmic domain of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
Barclay A.N., Jackson
Submitted (MAY-1987) t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Name=Ptprc;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cell 41:83-93(1985).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Rattus norvegicus (Rat)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE OF 190-1255 FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                             ninus.";

O.J. 6:1259-1264(1987).

FUNCTION: Required for T-cell activation through receptor. The first PTPase domain has enzymatic a receptor. The seems to affect the substrate spec
                         ween the Swiss Institute of Bioinf
European Bioinformatics Institute
by non-profit institute
                                                                                                                                                                  IsoId=P04157-4; Sequence=VSP_005165, VSP_005168; TISSUE SPECIFICITY: Variants 4 and 3 are found in variants 1 and 2 are found in thymocyte and lymph PTW: Heavily N- and O-glycosylated.
PTM: The cytoplasmic domain contains potential pho
                                                                                             SIMILARITY: Contains 2 fibronectin type III domains. SIMILARITY: Contains 2 protein-tyrosine phosphatase
                                                                                                                          SIMILARITY: Belongs to the protein-tyrosine Receptor class 1/6 subfamily.
                                                                                                                                                                                                                                                                                                                                                                                    tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH (By similarity).
SUBCELLULAR LOCATION: Type I membrane protein.
                                                                                                                                                                                                                                                                                                                                                                                                                        first one.
CATALYTIC ACTIVITY: Protein tyrosine
                                                                                                                                                                                                                                            Name=4
                                                                                                                                                                                                                                                                                                   Name=2
                                                                                                                                                                                                                                                                       Name=3
                                                                                                                                                                                                                                                                                                                                          Event=Alternative splicing; Named isoforms=4; Comment=Additional isoforms seem to exist;
                                                                                                                                                                                                                                                                                                                                                                       ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RAT
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                                                                                                                                                                                                                                                        IsoId=P04157-3;
                                                                                                                                                                                                                                                                                   IsoId=P04157-2;
                                                                                                                                                                                                                                                                                                              IsoId=P04157-1; Sequence=Displayed;
             non-profit institutions as long and this statement is not removed
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                                                                                                                                                                                                                                                       Sequence=VSP_005166;
                                                                                                                                                                                                                                                                                  Sequence=VSP_005167;
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EMBL/GenBank/DDBJ
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Sciurognathi; Muridae;
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(See http://www.isb-sib.
                                      There are no
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/DDBJ databases.
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; Murinae; Rat
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Best Local
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EMBL; Y00065; CAA68273.1; -.
EMBL; Y00065; CAA68275.1; -.
EMBL; Y00065; CAA68275.1; -.
EMBL; M25820; AAA41518.1; -.
EMBL; M25821; AAA41519.1; -.
EMBL; M25821; AAA41520.1; -.
EMBL; M25823; AAA41521.1; -.
EMBL; M25823; AAA41519; AAA41519; AAA41519; AAA41519; AAA41519; AAA41519; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-lik
InterPro; IPR008957; TXR_phosph
InterPro; IPR000242; Tyr_PP.
Pfam; PP00102; Y_phosphatase; 2
Pfam; PP00102; Y_phosphatase; 2
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PRINTS; FROUNCE,
PROSITE; P850853; FN3; 2.
PROSITE; P800383; TYR PHOSPHATASE 1; 2.
PROSITE; P89036; TYR PHOSPHATASE 2; 2.
PROSITE; P850055; TYR PHOSPHATASE PTP; 2.
PROSITE; P850055; TYR PHOSPHATASE PTP; 2.
Alternative splitding; Antigen; Glycoprotein; Hydrolase;
Alternative splitding; Antigen; Glycoprotein; Hydrolase;
Alternative splitding; Antigen; Glycoprotein; Hydrolase;
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; FN_III-like.
; TYR_phosphatase.
; Tyr_PP.
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Missing (ii
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N-linked
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Protein-tyrosine phosphatase
Phosphocysteine intermediate
similarity)
                                           Score 50; DE
Pred. No. 1.2
); Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        similarity)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Phosphocysteine intermediate
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                                                                                                R (in Ref. 3).
C257CBD2A355BCEA CRC64;
                                                       No. 1.2;
                                                                                                                                                                                                (ii
                                                                                                                                                                                                                              (in isoform
                                                                                                                                                                                                                                                       (GlcNAc. .
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RESULT RESULT OF COUNTY AND COUNT
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Q6ED60
         ACCOMMON TO THE PROPERTY OF TH
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R GO; GO:0016787; F:hydrolase activity; IEA.

R GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

R GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.

IR GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.

IR InterPro; IPR003595; PTPc_motif.

II InterPro; IPR000387; TYR_phosphatase.

IN InterPro; IPR000242; Tyr_PP.

IR Pfam; PF00102; Y_phosphatase; 2.

IR Pfam; PF00102; Y_phosphatase; 2.

IR PAINTS; PR00700; PRTYPHPHTASE.

IR SMART; SM00104; PTPC; 2.

IR SMART; SM00104; PTPC; 12.

IR SMART; SM00104; PTPC; 12.

IR SMART; SM00104; PTPC; 12.

IR PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

IR PROSITE; PS00383; TYR_PHOSPHATASE_PTP; 2.

IR PROSITE; PS00385; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 9
Tissue Antigens 64:165-172(2004).

EMBL; AY445818; AAS06903.1; -.
GO; GO:0004725; F:protein tyrosine phos
GO; GO:0006470; P:protein amino acid de
InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
InterPro; IPR003595; PTPC motif.
InterPro; IPR000387; TYR_phosphatase.
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Q6UNF4;
05-JUL-2004
05-JUL-2004
05-JUL-2004
CD45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           25-OCT-2004
25-OCT-2004
25-OCT-2004
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SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    QGED60;
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Submitted (AUG-2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Cho
Actinopterygii; Neopter
Ictaluridae; Ictalurus.
NCBI TaxID=7998;
                                                                                                                                                                                                                                                                                                                                                                                                                              Aotus vociferans (Spix's owl monkey).
Eukaryota; Metazoa; Chordata; Craniat;
Mammalia; Eutheria; Primates; Platyrri
NCBI_TaxID=57176;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBL; AY366233; AAQ72837.1; HSSP; P18031; 1KAV.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CD45.
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                                                                                                                                                                                                                                                                                                                     Montoya G.E.,
                                                                                                                                                                                                                                                                                                                                              PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                  "Comparative analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10
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                                                                                                                                                                                                                                                                                                                                                                              FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ILPYDYNRV
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2003) to th
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в of C
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                                                                                                                                                                                                                                                                                                                     Patarroyo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
Last seq
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EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 l catfish).
a; Craniata;
; Teleostei;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Last
Last
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
                                                                                                                            ine phosphatase activity; IEA acid dephosphorylation; IEA.
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annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequence update)
annotation update)
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Ostariophysi; Siluriformes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A
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1.2;
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                                                                                                                                                                                                                                                                                        context:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Euteleostomi;
Aotinae; Aotu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              .
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RESULT 12
Q61812
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Best Local S
Matches
                                                                                                                     MGD; MGI:97810; Ptprc.

R GO; GO:0009897; C:external side of plasma membrane;
R GO; GO:0016021; C:integral to membrane; TAS.
R GO; GO:0016021; C:integral to membrane; TAS.
R GO; GO:0016021; C:integral to membrane; TAS.
R GO; GO:0016021; F:protein binding; IPI.
R GO; GO:0030183; P:B-cell differentiation; IMP.
R GO; GO:0042109; P:B-cell proliferation; IMP.
R GO; GO:004217; P:T-cell differentiation; IMP.
R GO; GO:004217; P:T-cell proliferation; IMP.
R GO; GO:0042098; P:T-cell proliferation; IMP.
R GO; GO:004652; P:thymcoyte differentiation; IMP.
R GO; GO:0046652; P:TMP III.
R InterPro; IPR000381; FW III.
R InterPro; IPR000381; TYR phosphatase.
R InterPro; IPR000242; Tyr-PP.
R FABM; PF00102; Y phosphatase; 2.
R PRINTS; PR000700; PRTYPHPHTASE.
R SMART; SM00060; FN3; 2.
R SMART; SM00194; PTPC; 2.
R SMART; SM00194; PTPC; 2.
  Query Match
Best Local Similarity
                                       Hydrolase;
SIGNAL
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00404; PTPC motif; 2.
PROSITE; PS50085; FN3; 2.
PROSITE; PS50056; TYR PHOSPHATASE 1; 2.
PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
PROSITE; PS50055; TYR PHOSPHATASE PTP;
                                                                     SMART; SM00194; PTPC; 2.
PROSITE; PS50853; FN3; PHOSPHATASE 1; 2.
PROSITE; PS50036; TYR_PHOSPHATASE 2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=92361152; PubMed=1822988; Zebedee S.L, Barritt D.S., Raschke W.C.; "Comparison of mouse Ly5 A and Ly5 B leu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q61812;
01-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-OCT-2003 (TrEMBLrel. 25,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pfam;
Pfam;
                                                                                                                                                                                                                                                                                                                                       HSSP;
                                                                                                                                                                                                                                                                                                                                                                           alleles.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Lymphocyte common antigen Name=Ptprc; Synonyms=Ly5;
                                                                                                                                                                                                                                                                                                                                                     EMBL;
                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rPro; IPR000242; Tyr_r.
n; PF00041; fn3; 2
m; PF00102; Y_phosphatase; 2.
                                                                                                                                                                                                                                                                                                                                      Immunol. 1:243-254(1991).; M92933; AAA39459.1; -.; P18052; 1YFO.
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                                                               Signal.
                                       1291 AA;
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ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PRELIMINARY;
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                                      23 Pot
144559 MW;
   100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          precursor
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Pred. No. 1.2
0; Mismatches
                                                  Potential
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Craniata; Vertebrata; l
Sciurognathi; Muridae;
  Score 50; I
Pred. No. 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ν
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sequence update) annotation updat
                                       25C3CB61AF4350CE CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                     common antigen
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RESULT 14

CD45 HUMAN STANDARD; PRT; 1304 AA.

ID CD45 HUMAN STANDARD; PRT; 1304 AA.

AC P08575; Q16614; Q9H0Y6;
DT 01-AUG-1988 (Rel. 08, Created)
DT 10-CCT-2003 (Rel. 42, Last sequence update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
DT 05-JUL-2004 (Rel. 44, Last annotation update)
  RRR OCC OCC DE TE
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Matches 9
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Pfam; PF00041; fi3; 2.7

Pfam; PF00102; Y phosphatase; 2.

PFINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; P850853; FN3; 2.

PROSITE; P850083; TYR_PHOSPHATASE 1; 2.

PROSITE; P850036; TYR_PHOSPHATASE_2; 2.

PROSITE; P850055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q6ED61;
25-OCT-2004
25-OCT-2004
25-OCT-2004
                                         Homo sapiens (Human
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                 Hydrolase.
SEQUENCE
SEQUENCE FROM N.A. TISSUE=Lymphocytes;
                         NCBI_TaxID=9606;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR003961; FN III.-ike.
InterPro; IPR008957; FN III-ike.
InterPro; IPR003959; PPE motif.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; AY445817; AAS06902.1; -GO; GO:0004725; F:protein tyrosine phosphatase activity. GO; GO:0006470; P:protein_amino acid dephosphorylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Aotus nancymaae (Ma's night monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
                                                                            Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q6ED61
                                                                                      (T200)
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"Comparative analysis
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           (ISOFORM
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Primates;
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s of CD45 protein
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Pred. No.
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Catarrhini;
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           ALTERNATIVE
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                                          Vertebrata; Euteleostomi; i; Hominidae; Homo.
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                                                                                               (L-CA) (CD45 antigen)
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J. Exp. Med. 1(2)
[2]
SEQUENCE FROM (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=87275816; Pul
Ralph S.J., Thomas M
"Structural variants
                                                                      EMBL;
EMBL;
                                                                                                                                               use by non-profit institutions modified and this statement is not entitles requires a license agreement ities requires a license agreement it is not a 
                                                                                                                                                                                                               the
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Streuli M., Kruege
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Charbonneau H., Tonks N.K., Walsh K.A., Fischer E
"The leukocyte common antigen (CD45): a putative
protein tyrosine phosphatase.";
Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        "Complete exon-intron organization antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
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Hall L.R., Streuli
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TISSUE=Placenta;
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                                                                                                                                            send
                                                                                                                                                                                                                                                                                  IsoId=P08575-2; Sequence=VSP_007780;
PTM: Heavily N- and O-glycosylated.
SIMILARITY: Belongs to the protein-tyrosine phospha
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH (By similarit:
SUBCELLULAR LOCATION: Type I membrane protein
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
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FUNCTION: Required for a commentar. The first PTPase doma
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first one.
CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                                                                                                                                                                   European
                                                                                                                                                                                                                                                                                                                                                                                                                                    Name=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=1;
                                                                                                                                                                                                                                  SWISS-PROT entry is copyright. It is produced through a ceen the Swiss Institute of Bioinformatics and the EMBL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        J. 6:1251-1257(1987).
Y00638;
Y00062;
M23492;
M23496;
M23466;
M234667;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   IsoId=P08575-1;
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M., Krueger N.X., Thai T., Tang
ct functional roles of the two i
of the receptor-linked protein
                                                                                                                                             an
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                                                                                                                                            equires a license agreement email to license@isb-sib.ch
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AAD15273.
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i M., Schlossman
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two intracellular phosphatase
tein tyrosine phosphatases LC!
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ne human leukocyte common
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entry;
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PROSITE; PS0083; TYR PHOSPHATASE 1; 2.
PROSITE; PS0036; TYR PHOSPHATASE 2; 2.
PROSITE; PS50056; TYR PHOSPHATASE PTP; 2.
PROSITE; PS50055; TYR PHOSPHATASE PTP; 2.
Alternative splicing; Antigen; Glycoprotein;
Alternative splicing; Protein phosphatase; Repeat
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InterPro, IPR008957; FN III-like.
InterPro, IPR000387; TYR phosphatase.
InterPro, IPR000242; TYr_PP.
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GO:0007166;
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PF00102; Y phosphatase;
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MEDLINE=87260986; PubMed=2955416;
Thomas M.L., Reynolds P.J., Chain A., Ben-Neriah Y., Trowbriage
"D-rell variant of mouse T200 (Ly-5): evidence for alternative
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EMBL; M23
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01-NOV-1996 (TrEMBLrel. 01, Last sequence up
01-OCT-2003 (TrEMBLrel. 25, Last annotation
Leucocyte common antigen (L-CA) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=89197920; Pu
Johnson N.A., Meyer
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  101. Chem. 264:6220-62; M23148; AAAA39418:1; M23150; AAAA39418:1; M23155; AAAA39418:1; M23155; AAAA39418:1; M23156; AAAA39418:1; M23156; AAAA39418:1; M23134; AAAA39418:1; M23134; AAAA39418:1; M23134; AAAA39418:1; M23132; AAAA39418:1; M23132; AAAA39418:1; M23132; AAAA39418:1; M23132; AAAA39418:1; M23134; AAAA39418:1; M23144; AAAA39418:1; M23144; AAAA39418:1; M23144; AAAA39418:1; M23146; AAAA39418:1; M23147; AAAA39418:1; M23149; AAAA39418:1; M23149; AAAA39418:1; M23149; AAAA39418:1; M23149; AAAA39418:1; M23149; AAAA39418:1; M23149; AAAA39418:1; M23139; AAAA39418:1; M231346; AAAA3941
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an leukocyte-common antigen gene.";
Chem. 264:6220-6229(1999).

(23148; AAA39418.1; JOINED.
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(23151) AAA39418.1; JOINED.
(23153; AAA39418.1; JOINED.
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Missing (in isoform 2).
/FTId=VSP_007780.
C-SS: Loss of activity.
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EMBL; M23152; AAA39418.1; JOINED.
HSSP; P18052; 1YFO.
GO; GO:00004725; F:protein tyrosine phos
GO; GO:0006470; P:protein amino acid de
InterPro; IPR003961; FN III.
InterPro; IPR00387; TYR phosphatase.
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PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
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                                                                                                                                                                            Pfam;
673
                                                                                                                                                             PF00041; fn3; 3.
PF00102; Y_phosphatase;
S; PR00700; PRTYPHPHTASE.
                                                                                                                                      5; PR00700; PRTYPHPH; SM00060; FN3; 2.; SM00194; PTPC; 2.
                1 ILPYDYNRV 9
                                          Similarity 9; Conserv
 ILPYDYNRV
                                                                                     1343 AA;
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                                                                                     150679 MW; ODEBDEC97FC4C6A9 CRC64;
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Search completed: May 3, 2005, 06:01:18 Job time : 41.1351 secs

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OM protein - protein search, using sw model
Run on: May 3, 2005, 05:49:25; Search time 6.68919 Seconds (without alignments)
129.455 Million cell updates/sec
Title: US-10-003-983C-2
Perfect score: 40
Sequence: 1 ALIAFLAFL 9
Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5
Searched: 283416 seqs, 96216763 residues
Total number of hits satisfying chosen parameters: 283416
Minimum DB seq length: 0
Maximum DB seq length: 200000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
Database: PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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and is derived by analysis of the total score distribut	score greater than or equal to the score of the result being printed,	Fred: No. is the number of results predicted by chance to have a
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A;Status: A;Molecul	A;Referen A;Accessi	A; Title:	Mol. Cell	R;Tsai, A	A;Experim	A; Residue	A; Molecul	A:Status:	A; Accessi	A:Experim	A:Cross-r	A;Residue	A; Molecul	A:Accessi	A:Referen	A;Title:	EMBO J. 6	₩.	A;Experim	A;Cross-r	A:Residue	A;Molecul	A;Status:	A;Accessi	A;Experim	A;Cross-r	A;Residue	A; Molecul	אַ הַּרְיִּבְיִרְיִי	D. POODS i

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ALIGNMENTS

			<u> </u>	
A;Status: not compared with conceptual translation A;Molecule type: mRNA A;Mesidues: 32-192 <ra2> A;Residues: 32-192 <ra2> A;Experimental source: clone HLC-2 R;Tsai, A,Y.; Streuli, M; Saito, H. Mol. Cell. Biol. 9, 4550-4555, 1989 A;Title: Integrity of the exon 6 sequence is essential for tissue-specific alternative + A;Reference number: 157658; MUID:90066468; PMID:2531281 A;Accession: 157658 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: 146-192 <res></res></ra2></ra2>	A;Title: Structural variants of human T200 glycoprotein (leukocyte-common antigen). A;Title: Structural variants of human T200 glycoprotein (leukocyte-common antigen). A;Reference number: A91066; MUID:87275816; PMID:2956090 A;Accession: A29449 A;Molecule type: mRNA A;Residues: 1-31,193-649,'L',651-869,'G',871-872,'A',874-1206,'P',1208-1304 <ral> A;Cross-references: GB:Y00062; NID:g34275; PIDN:CAA68269.1; PID:g34276 A;Experimental source: clones pHLC-1 and lambdaHLG1 A;Accession: B29449</ral>	A;Experimental source: clone LCA.6/2 A;Accession: B46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-32,99-264 <st2> A;Cross-references: GB:Y00638 A;Experimental source: clone LCA.111 and clone LCA.260 A;Accession: C46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-31,193-264 <st3> A;Cross-references: GB:Y00638 A;Experimental source: clone LCA.1 R;Ralph, S.J.; Thomas, M.L.; Morton, C.C.; Trowbridge, I.S.</st3></st2>	C;Date: 10.Sep-1999 #Bequence_revision 10-Sep-1999 #text_change 09-Jul-2004 C;Accession: A46546; B46546; C46546; A29449; B29449; I57658 R;Streuli, M.; Hall, L.R.; Saga, Y.; Schlossman, S.F.; Saito, H. J. Exp. Med. 166, 1548-1566, 1987 A;Title: Differential usage of three exons generates at least five different mRNAs encoraptered number: A46546; MUID:88061067; PMID:2824653 A;Accession: A46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-1004 c57R> A;Cross-references: UNIPROT:P08575; GB:Y00638	RESULT 1 A46546 A46546 Leukocyte common antigen long splice form precursor - human N;Alternate names: CD45; protein-tyrosine-phosphatase, receptor type c; T200 glycoprote N;Contains: leukocyte common antigen intermediate splice form; leukocyte common antigen C:Species: Homo spriens (man)

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C;Accession: H89792

R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cuima, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawamo, T.; Inoue, R.; Kaito, C.; Seki C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K. Lancet 357, 1225-1240, 2001

A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus. A;Reference number: A89758; MUID:21311952; PMID:11418146

A;Accession: H89792
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Map position: 1q31-1q32

C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd C;Keywords: alternative splicing; glycoprotein; ptosphoprotein; phosphoric monoester hyd C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: GB:M29253; NID:g187020; PIDN:AAA59497.1; PID:g553521
C;Genetics:
A;Gene: GDB:PTPRC; CD45
A;Cross-references: GDB:119768; OMIM:151460
                                                                                                                                                                                                                 submitted to the EMBL Data Library, Nov
A;Reference number: Z19558
A;Accession: TZ2382
A;Status: preliminary; translated from
A;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                  T22382
hypothetical protein F48F5.1 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #t/
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A;Cross-references: UNIPROT:Q99WU0;
A;Experimental source: strain N315
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;Experimental source: clone F48F5
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Query Match
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87.5%;
88.9%;
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C.; Sekimizu,
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  insulin-like growth factor II precursor - sheep (Species: Ovis orientalis aries, Ovis ammon aries (domestic sheep) (C.Date: 07-Jun-1990 #sequence revision 07-Jun-1990 #text change 09-Jul-2004 (C.Paccession: S04958; S10984; S20731; S04972; S32557; S32558; A61008; S08567 R:O'Mahoney, J.V.; Adams, T.E.
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capsid protein - dengue virus type 2 (strain M3) (fragment)
C;Species: dengue virus type 2
C;Date: 12-Feb-1993 #sequence_revision 12-Feb-1993 #text_ch
C;Accession: S09222
                                                                                                                                  A;Cross-references: EMBL:X51709; NID:g59299; PIDN:CAA36005.1; A;Experimental source: strain M2 C;Superfamily: yellow fever virus genome polyprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                 capsid protein - dengue virus type 2 (fragment)
C;Species: dengue virus type 2
C;Date: 12-Feb-1993 #sequence revision 12-Feb-1993 #text_change
C;Accession: S09220; S09221
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A; Residues: 1-114 < SAM>
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A; Residues: 1-114 <SA2>
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A; Residues: 1-114 < SAM>
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A;Accession: S09220
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Nucleic Acids Res. 18, 1904,
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Pred. No. 16;
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A;Molecule type: protein
A;Molecule type: protein
A;Residues: 25-45, DG', 48-91 <FRA>
A;Residues: 25-45, DG', 48-91 <FRA>
A;Experimental source: fetal serum
C;Superfamily: insulin
C;Superfamily: insulin
C;Keywords: growth factor; plasma
F;1-24/Domain: signal sequence #status predicted <SIG>
F;25-91/Product: insulin chain B-like #status predicted <DOB>
F;25-52/Domain: insulin connecting peptide-like #status predicted <CHC>
F;55-64/Domain: insulin connecting peptide-like #status predicted <CHC>
F;65-85/Domain: insulin chain A-like #status predicted <CHC>
F;65-85/Domain: D peptide #status predicted <CHD>
F;92-179/Domain: Opeptide #status predicted <CHD>
F;92-179/Domain: Carboxyl-terminal propeptide (E peptide) #status predict
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A;Residues: 25-32, X',34-44, X',46-55, X',57,'X',59-60 <STR>
A;Residues: 25-32, X',34-44, X',46-55, X',57,'X',59-60 <STR>
A;Experimental source: feetal serum
R;Francis, G.L.; McNeil, K.A.; Wallace, J.C.; Ballard, F.J.; Owens,
Endocrinology 124, 1173-1183, 1989
Endocrinology 124, 1173-1183, 1989

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A;Note: the nucleotide sequence was submitted to the EMBL Data Library, March 19
R;Straczek, J.; Heulin, M.H.; Chemut, A.M.; Belleville, F.; Nabet, P.; Denoroy,
J. Chromatogr. 533, 35-46, 1990
A;Tittle: Application of preparative high-performance liquid chromatography to the
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A; Residues: 25-58 < HEY)
R; Demmer, J.; Hill, D.F.; Petersen, G.B.
Biochim. Biophys. Acta 1173, 79-80, 1993
A; Title: Characterization of two sheep insulin-like growth factor
A; Reference number: $32557; MUID:93250051; PMID:8485157
A; Accession: $32557
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A; Residues: 1-179 < DEM>
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A; Residues: 1-179 < BRO>
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A; Title: Nucleotide
A; Reference number:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Status: preliminary; nucleic acid sequence not shown; translation not shown
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to the EMBL Data Library, March 1992
                                              #status predicted <CPR>
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A; Gene: ZK520.2
A; Map position:
C; Superfamily: (
                                                                                                             A;Map position: 5
A;Introns: 59/2; 108/1
C;Superfamily: Caenorhabditis hypothetical protein C49G7.2
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A; Residues: 1-332 <WIL>
A; Cross-references: UNIPROT:045403;
A; Cross-references: Clone F26D2
                                                                                                                                                                   A;Gene: CESP:F26D2.4
                                                                                                                                                                                                                                             A; Molecule type: DNA
                                                                                                                                                                                                                                                         A;Status: preliminary; translated
                                                                                                                                                                                                                                                                         submitted to the EMBL Data Library, A;Reference number: Z19418
A;Accession: T21399
                                                                                                                                                                                                                                                                                                                      R;McMurray, A.
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                                                                                                                                                                                                                                                                                                                                           C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change
                                                                                                                                                                                                                                                                                                                                                                            hypothetical protein F26D2.4 - Caenorhabditis elegans
                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 8
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A;Residues: 1-257 <STO>
A;Cross-references: UNIPROT:046019; GB:chr_III; PIDN:CAB07300.1; PID:g3881752; GSPDB:GN:
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A;Note: see websites genome wustl.edu/gsc/C elegans/ and
A;Note: published errata appeared in Science 283, 35. 10
A;Accession: ARACIO
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se Caenorhabditis elegans
147 LLAFLAFL 154
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Pred. No.
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Pred.
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A;Molecule type: DNA
A;Residues: 1-773 <STO>
A;Cross-references: UNIPROT:Q9KD82; GB:AP001511; GB:BA000004; NID:g10173727; PIDN:BAB050
A;Experimental source: strain C-125
C;Genetics:
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C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
C;Accession: T27883
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C;Superi
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A;Introns: 49/3; 170/3; 185/3; 261/1; 311/3
C;Superfamily: Caenorhabditis elegans hypothetical
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A;Molecule type: DNA
A;Residues: 1-333 <WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Steward, C.
submitted to the EMBL Data Library, March
A;Reference number: Z20434
A;Accession: T27983
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Reference number: A83650; MUID:20512582; PMID:11058132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.;
Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphil
                                                                                                                                                                   genome polyprotein - dengue virus type 2 (strain PR159/S1)
N;Contains: capsid protein; envelope protein; membrane protein; nonstructur
a; nonstructural protein NS5
c;Species: dengue virus type 2
C;Date: 30-Jun-1989 #sequence_revision 30-Jun-1989 #text_change 19-Jan-2001
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                                                          A;Title: Nucleotide sequence of dengue 2 RNA and comparison A;Reference number: A29972; MUID:88101365; PMID:2827375 A;Accession: A29972
                                                                                                                C;Accession: A29972
R;Hahn, Y.S.; Galler, R.; Hunkapiller,
Virology 162, 167-180, 1988
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                          A; Molecule type:
A; Residues: 1-338
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Species: Bacillus halodurans
;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004;Accession: G83816
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Best Local (
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î-3388 «HAH»
rences: GB:M19197; NID:g323654; PIDN:AAA42962.1; PID:g323655
                                                                                                                                                                                                                                                                                                                                                                                                             Similarity 7; Conserv
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                                             genomic RNA
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77.8%;
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Pred. No. 39;
0; Mismatches
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Pred. No.
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                                                                                                                                     T.; Dalrymple, J.M.; Strauss, J.H.; Strauss,
                                                                                                                                                                                                                                                                                                                                                                                                                                  81;
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F;206-280/Product: membrane protein #status predicted <MMP>
F;281-775/Product: envelope protein #status predicted <EMP>
F;281-775/Product: nonstructural protein NS1 #status predicted <NS1>
F;776-1188/Product: nonstructural protein NS2a #status predicted <N2A>
F;1189-1345/Product: nonstructural protein NS2a #status predicted <N2A>
F;1346-1475/Product: nonstructural protein NS2b #status predicted <N2B>
F;1476-2090/Product: nonstructural protein NS3 #status predicted <N2B>
F;1476-2090/Product: nonstructural protein NS3 #status predicted <NS3>
F;1668-1675/Region: nucleotide-binding motif B
F;1755-1760/Region: DEAH motif
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Date: 31-Dec-1992 #sequence revision 31-Dec-1992 #text_change 09-Jul-2004 C;Accession: A42451; A43496; Ā43763 R;Blok, J.; McWilliam, S.M.; Butler, H.C.; Gibbs, A.J.; Weiller, G.; Herring, Virology 187, 573-590, 1992 Virology 187, 573-590, 1992 A;Title: Comparison of a dengue-2 virus and its candidate vaccine derivative: A;Reference number: A42451; MUID:92188532; PMID:1312269
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   genome polyprotein - dengue virus type 2 (strain 16681)
N;Contains: capsid protein C; envelope protein E; membrane-associated protein
tural protein NS4a; nonstructural protein NS4b; nonstructural protein NS5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    F;2091-2376/Product: nonstructural protein NS4a #status predicted <N4A>
F;2377-2488/Product: nonstructural protein NS4b #status predicted <N4B>
F;2489-3388/Product: nonstructural protein NS5 #status predicted <N85>
F;2489-3388/Product: nonstructural protein NS5 #status predicted <N85>
F;183,347,433,905,982,1134,1174,1329,1369,2298,2302,2384,2454,2482,2641,2662,2701,2711/B
                                                                                                                                                                                                                                                                                                                                                                    F;1128-1345/Product: nonstructural protein NS2a #status predicted <N2A>
F;1346-1474/Product: nonstructural protein NS2b #status predicted <N2B>
F;1475-2093/Product: nonstructural protein NS3 #status predicted <NS3>
F;1668-1675/Region: nucleotide-binding motif A (P-loop)
F;1755-1760/Region: nucleotide-binding motif B
F;1759-1762/Region: DEAH motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Accession: A42451
A;Molecule type: genomic RNA
A;Rosidues: I-3391 <BLO>
A;Cross-references: UNIPROT: P29990; GB:M84727; GB:M85259; NID: 9323472; PIDN:AAA73185.1;
A;Cross-references: UNIPROT: P29990; GB:M84727; GB:M85259; NID: 9323472; PIDN:AAA73185.1;
C;Superfamily: yellow fever virus genome polyprotein; glycoprotein; nonstructural protein;
C;Supvords: ATP; capsid protein; envelope protein; glycoprotein; nonstructural protein;
E;1-114/Product: capsid protein C #status predicted cCPC>
F;115-205/Domain: nonterminal signal sequence #status predicted cSIG>
F;106-280/Product: membrane-associated protein M #status predicted cMPM>
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                                                                                                                                                                                                                F;2094-2243/Product: nonstructural protein NS4a #status predicted <N4A>F;2244-2491/Product: nonstructural protein NS4b #status predicted <N4B>F;2492-3391/Product: nonstructural protein NS5 #status predicted <NS5>F;183,347,433/Binding site: carbohydrate (Asn) (covalent) #status predic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         F;281-775/Product: envelope protein E #status predicted <EPE>F;727-743/Domain: transmembrane #status predicted <TM2>F;727-773/Domain: transmembrane #status predicted <TM3>F;757-773/Domain: transmembrane #status predicted <TM3>F;776-1127/Product: nonstructural protein NS1 #status predicted
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Pred. No. 2.8e+02;
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                                                                                                                                                            DB 1;
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genome polyprotein - dengue virus type 2 (strain Jamaica)
N;Contains: capsid protein C; envelope protein E; membrane-associated protei
tural protein NS4a; nonstructural protein NS4b; nonstructural protein NS5
C;Species: dengue virus type 2
C;Date: 30-Sep-1989 #sequence revision 30-Sep-1989 #text_change 09-Jul-2004
C;Accession: A94346; A94378; A25613; A29199
R;Deubel, V.; Kinney, R.M.; Trent, D.W.
Virology 155, 365-377, 1986
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F;1272-1288/Domain: transmembrane #status predicted <TM75
F;1294-1310/Domain: transmembrane #status predicted <TM75
F;1294-1310/Domain: transmembrane #status predicted <TM85
F;1346-1474/Product: nonstructural protein NS2b #status predicted <N2B5
F;1373-1389/Domain: transmembrane #status predicted <TM75
F;1373-1389/Domain: transmembrane #status predicted <TM75
F;1448-1464/Domain: transmembrane #status predicted <TM75
F;1475-2093/Product: nonstructural protein NS3 #status predicted <NS35
F;1668-1675/Region: nucleotide-binding motif B
F;1755-1760/Region: nucleotide-binding motif B
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F;102-118/Domain: transmembrane #status predicted <TM2>
F;115-280/Product: membrane-associated protein M precursor #status predicted F;115-205/Domain: nonterminal signal sequence #status predicted <SIG>
F;206-280/Product: membrane-associated protein M #status predicted <MPM>
F;268-284/Domain: transmembrane #status predicted <TM3>
F;281-775/Product: envelope protein E #status predicted <EPE>
F;281-775/Product: envelope protein Signal sequence #status predicted <FM5-
F;727-743/Domain: transmembrane #status predicted <TM5-
F;776-1127/Product: nonstructural protein NS1 #status predicted <NS1>
F;1128-1345/Product: nonstructural protein NS2a #status predicted <N2A>
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F;2411-2427/Domain: transmembrane #status predicted <TMH>
F;2411-2427/Domain: transmembrane #status predicted <TMH>
F;2492-3391/Product: nonstructural protein NS5 #status predicted <NS5>
F;183,347,433,905,982,1134,1174,1329,2301,2305,2346,2387,2457,2485,2644,2665,2704,2714/E
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A;Title: Comparison of a dengue-2 virus and its candidate vaccine derivative: sequence A;Reference number: A42451; MUID:92188532; PMID:1312269
A;Accession: B42451
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A;Cross-references: UNIPROT:P29991;
C;Superfamily: yellow fever virus ge
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N;Contains: capsid protein C; envelope protein B; membrane-associated protein
tural protein NS4a; nonstructural protein NS4b; nonstructural protein NS5
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Accession: B42451
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77.8%;
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F;1346-1474/Product: nonstructural protein NS2a #status predicted <N2B>
F;1346-1474/Product: nonstructural protein NS3 #status predicted <N2B>
F;1475-203/Product: nonstructural protein NS3 #status predicted <N2B>
F;1475-203/Product: nonstructural protein NS3 #status predicted <NS3>
F;1668-1675/Region: nucleotide-binding motif B
F;775-1762/Region: DEAH motif
F;775-1762/Region: DEAH motif
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               polyprotein - dengue virus type 2 (strain New Guinea-C) N;Contains: capsid protein; envelope protein; membrane glycoprotein; n NS4A; nonstructural protein NS4B; nonstructural protein NS5 C;Species: dengue virus type 2 C;Date: 30-Jun-1992 #sequence_revision 30-Jun-1992 #text_change 09-Ju C;Accession: JS0219; A28646 C;Accession: JS0219; A28646 R;Irie, K; Mohan, P.M.; Sasaguri, Y.; Putnak, R.; Padmanabhan, R. Gene 75, 197-211, 1989
                                                                                                                                                                                          A;Cross-references: GB:M20558
C;Superfamily: yellow fever virus genome polyprotein
C;Keywords: ATP; capsid protein; envelope protein; glycoprotein; nonstructural
C;Keywords: ATP; capsid protein C #status predicted <CPC>
F;2-114/Product: capsid protein C #status predicted <TM1>
F;43-59/Domain: transmembrane #status predicted <TM1>
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A;Accession: A94346
A;Molecule type: genomic RNA
A;Residues: 1-791 <DE12
                                                                                                                                                                                                                                                                                                                                                                                                                       A;Title: Sequence analysis of cloned dengue virus type 2 genome A;Reference number: JS0219; MUID:89232751; PMID:2714651 A;Accession: JS0219
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A;Molecule type: genomic F
A;Residues: 792-3391 <DE2:
                              A; Molecule type: genomic RNA
A; Residues: 749-1227 < PUT>
                                                                                                                                A; Title: Functional and antigenic A; Reference number: A28646; MUID:8
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                                                                                                     A;Accession: A28646
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C;Keywords: ATP; envelope protein; glycoprotein; nonstructural protein; nucleotide bindi f;2-114/Product: capsid protein #status predicted <CAP>
F;115-280/Product: membrane glycoprotein #status predicted <MEM>
F;115-280/Product: membrane glycoprotein #status predicted <MEM>
F;115-280/Product: membrane glycoprotein #status predicted <MEM>
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F;266-275/Domain: transmembrane #status predicted <TMI>
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F;1138-1345/Product: nonstructural protein NS2A #status predicted <NS2>
F;1138-1345/Product: nonstructural protein NS2B #status predicted <NS3>
F;1476-2093/Product: nonstructural protein NS2B #status experimental <NS3>
F;1476-2093/Product: nonstructural protein NS2B #status experimental <NS3>
F;1668-1675/Region: nucleotide-binding motif A (P-loop)
F;1755-1760/Region: nucleotide-binding motif A (P-loop)
F;1759-1762/Region: DEAH motif
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F;2492-3391/Product: nonstructural protein NS4B #status predicted <NS4>
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F;1847,433,1134,1174,2301,2485,2665,2714/Binding site: carbohydrate (Asn) (covalent) #status experimental <NS5>
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R; Barclay, A.N.; Jackson, 1 EMBO J. 6, 1259-1264, 1987

A; Molecule type: mRNA A; Residues: 20-30, 163-218 < BAR1 >

A;Accession: A29450

C;Species: Rattus norvegicus (Norway rat)
C;Date: 04-Dec-1986 #sequence_revision 05-May-2000 #text_change 09-Jul-2004
C;Accession: A29450; B29450; C29450; D29450; A60241; A02247; I54569; A45854
C;Accession: A29450; B29450; C29450; D29450; Williams, A.F.

 N_i :Contains: leukocyte common antigen precursor, splice form 1_i leukocyte common 1.3.48)

ant igen

leukocyte common antigen precursor, splice form 4 - rat N;Alternate names: CD45; L-CA; Ly-5; T200

A;Title: Lymphocyte specific heterogeneity in the rat leucocyte common antigen (T200) i A;Reference number: A91067; MUID:87275817; PMID:2440674

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44.			A46546 A54080	protein-tyrosine-p
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	1.7		167629 D54689	protein-tyrosine-p protein-tyrosine-p
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i.			G86783	protein-tyrosine-p transcription regu
	72.9 2 72.9 2		D71724 A97723	hypothetical prote
	9 9		JW0049	protein-tyrosine-p
	2.9		H85512	hypothetical prote
	م م	40	B90662	hypothetical prote
	9		JN0317	protein-tyrosine-p
	72.9 5	535 L 535 2	A46101	protein-tyrosine-p

A; Molecule type: mRNA
A; Residues: 28-218 < LBR4>
A; Rosidues: 28-218 < LBR4>
A; Rosidues: Called Form 4
A; Experimental source: splice form 4
A; Experimental source: findenBank entry RATLCAIV, release 113.0, has the codon AGG for 56
A; Note: the sequence in GenBank entry RATLCAIV, release 113.0, has the codon AGG for 56
R; Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, A.F.
Adv. Exp. Med. Biol. 237, 3-7, 1988
A; Reference number: A60241; MUID:89319817; PMID:2978200

A;Residues: 19-30,122-218 <BAR2> A;Cross-references: GB:M25821; GB:M24611; NID:g205155; PIDN:AAA41519.1; PID:g205156; A;Experimental source: splice form 2

A;Note: the translation in GenBank entry RATLCAI, PIDN:AAA41518.1, PID:g205154, release A;Accession: B29450 A;Cross-references: UNIPROT:Q64224; GB:M25820; GB:M24611; NID:g205153; GB:Y00065; GB:K0 A;Experimental source: splice form 1

A;Residues: 20-30,73-121,163-218 <BAR3> A;Cross-references: GB:M25822; GB:M24611; NID:g205157; PIDN:AAA41520.1; PID:g205158; GB A;Experimental source: splice form 3

A; Accession: D29450

A; Molecule type: mRNA A; Accession: C29450 A; Molecule type: mRNA

A;Molecule type: mRNA A;Residues: 187-189,'K',191-192,'K',208-1273 <THO> A;Cross-references: GB:M10072; GB:M61859; NID:9205140; PIDN:AAA41513.1; PID:9205143 A;Note: the translation in GenBank entry RATLCA1, release 113.0, begins at non-intitiatonal content of the content of t

A;Title: Evidence from cDNA clones that the rat leukocyte-common antigen (T200) spans A;Reference number: A02247; MUID:85201691; PMID:3158393 A;Accession: A02247

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R;Thomas, M.L.; Barclay, A.N.; Gagnon, J.; Williams, A.F. Cell 41, 83-93, 1985

A; Molecule type: DNA A; Residues: 30-161 <BAR5>

A; Accession: A60241

A;Status: not compared with conceptual translation

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C;Comment: This glycoprotein is found on lymphoid and myeloid cell surfaces.
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol
C;Superfamily: leukocyte common antigen; duplication; glycoprotein; phosphoprotein; phosphoric
C;Keywords: alternative splicing; duplication; glycoprotein; phosphoprotein; phosphoric
F;1-3/Domain: signal sequence #status predicted <SIGs
F;24-1273/Product: leukocyte common antigen precursor, splice form 4 #status predicted <F;24-54,00main: extracellular #status predicted <EXTs
F;24-30,122-1273/Product: leukocyte common antigen, splice form 2 #status predicted <MATF;24-30,122-1273/Product: leukocyte common antigen, splice form 1 #status predicted <MATF;24-30,13-1273/Product: leukocyte common antigen, splice form 3 #status predicted <MATF;24-30,73-121,163-218/Product: leukocyte common antigen, splice form 3 #status predicted
F;547-568/Domain: transmembrane #status predicted <TMM's
F;565-1206/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;565-1273/Domain: intracellular #status predicted <INT's
F;565-1273/Domain: intracellu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protein-tyrosine-phosphatase (BC 3.1.3.48) Ly-5 precursor (B-cell variant) - mouse N;Alternate names: 200K leukocyte common antigen; B220; CD45; Ly-5 (B-cell specific); N;Contains: protein-tyrosine-phosphatase (T-cell variant) C;Species: Mus musculus (house mouse) C;Date: 10-Sep_199  #sequence revision 10-Sep_1999 #text change 09-Jul-2004 C;Accession: A28334; A29381; Ā61180; A60933; A33522; A29075; I54450; A28335; A23329; R;Thomas, M.L.; Reynolds, P.J.; Chain, A.; Ben-Neriah, Y.; Trowbridge, I.S. Proc. Natl. Acad. Sci. U.S.A. 84, 5360-5363, 1987 A;Reference number: A28334; MUID:87260986; PMID:2955416 A;Accession: A28334; MUID:87260986; PMID:2955416
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A;Title: Expression of soluble isoforms of rat CD45. Analysis by eleca; R;Reference number: I54569; MUID:92340120; PMID:1378817
A;Accession: I54569
                                                     R;Yi, T.;
Blood 78,
                                                                                                                                                                                                                                                                                                                                                   A; Molecule type: mRNA
A; Residues: 1-1291 <THO>
A; Residues: 1-1291 <THO>
A; Cross-references: UNIPROT: P06800; UNIPROT: Q61814; UNIPROT: Q61815; UNIPROT: Q61813;
A; Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A.
Proc. Natl. Acad. Sci. U.S.A. 83, 6940-6944, 1986
Proc. Natl. Acad. Sci. U.S.A. 83, 6940-6944, 1986
A; Title: Sequences of Ly-5 cDNA: isoform-related diversity of Ly-5 mRNA.
A; Reference number: A29381; MUID: 86313686; PMID: 2944116
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A;Cross-references: GB:M18347; GB:M18348; GB:M18349
C;Comment: This glycoprotein is found on lymphoid and myeloid cell surfaces.
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic
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A; Residues: 1-30,163-180 < MCC>
A;Title:
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                                          ,Molecule type: mRNA
,Residues: 1-30,170-517,'NTT',521-527,'G',529-555,'S',557-587,'S',589-905,'Q',907-930,
;Cross-references: GB:M14342; NID:g198914; PIDN:AAA39458.1; PID:g198915
;YI, T.; CleveLand, J.L.; Ihle, J.N.
lood 78, 2222-2228, 1991
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;646-870/Domain: protein-tyrosine-phosphatase homology <PTP>
;62,142,153,164,178,200,245,271,282,327,371,374,502/Binding site: carbohydrate
;822/Active site: Cys (phosphocysteine intermediate) #status predicted
;822/Binding site: substrate phosphate (Arg) #status predicted
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Identification of novel protein tyrosine phosphatases of hematopoietic cells
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Pred. No. 0.3
0; Mismatches
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A;Molecule type: mRNA
A;Residues: 1-30,74-226 <SA2>
A;Cross-references: GB:M14342
R;Shen, F.W.; Saga, Y.; Litman, G.; Freeman, Proc. Natl. Acad. Sci. U.S.A. 82, 7360-7363, A;Reference number: A23329; MUID:86042665; PM A;Accession: A23329
A;Molecule type: mRNA
A;Residues: 10-30,170-263 <SHE>
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Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987
A;Title: Alternative use of 5' exons in the specification of Ly-5 isoforms distinguishin
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A;Title: Cloned murine T200 (Ly-5) cDNA reveals multiple transcripts within A;Reference number: A29075; MUID:87092355; PMID:2948186
A;Accession: A29075
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A; Residues: 1-22 < JOH>
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A;Title: Sequence conservation in po
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A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Johnson, 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-
A; Residues: 'R', 289-288; 329,'V', 331-336,'Y'; 'R', 364-370,'X', 372-375; 595-608; 638-649; 669-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 678-808; 6
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F;565-586/Domain: transmembrane #status predicted <TMM>F;583-1223/Domain: leukocyte common antigen cytosolic de F;587-1291/Domain: intracellular #status predicted <INT
                                                                                                                                                                                                                                                                   A;Gene: Ly-5
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Superfamily: leukocyte splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd E;1-23/Domain: signal sequence #status predicted <SIG>
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A;Residues: 'MT',1-22 <RE2>
A;Cross-refe' MT',1-23 <RE2>
C;Genetics:
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A; Residues: 961-1291 < RAS>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: mRNA
                                                                                                                                                                          F;24-1291/Product: protein-tyrosine-phosphatase (B-cell variant) #status F;24-564/Domain: extracellular #status predicted <EXT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Reference number: 157644; MUID:89096862; A; Accession: 157644
                                                                                                                                    F;24-30,170-1291/Product: protein-tyrosine-phosphatase (T-cell variant) #status predicte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Title: Organization of the Ly-5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: GB:M11934; NID:g198919; PIDN:AAA39461.1; PID:g198920
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Accession: A28335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Reference number: A28335; MUID:87260987; PMID:3037546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Cross-references: GB:M23241; NID:g340850;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     [mmunogenetics 28, 271-277, 1988
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;Residues: 32-73 <RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cross-references: GB:M22456; NID:g198755; PIDN:AAB46374.1;
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Cell. Biol. 8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         4889-4895, 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   I.D.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 G.; Freeman, G.; Tung, J.S.; 2, 7360-7363, 1985
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gene.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             n rat (T200) and mouse (Ly-5) leukocyte PMID:3570377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PMID:3211131
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PMID:3864163
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                                                        domain
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                                                   homology <LAC:
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A; Molecule type: mRNA
A; Residues: 32-192 <AR2>
A; Residues: 32-192 <AR2>
A; Experimental source: clone HLC-2
R; Tsai, A.Y.; Streuli, M.; Saito, H.
Mol. Cell. Biol. 9, 4550-4555, 1989
A; Title: Integrity of the exon 6 sequence is essential for tissue-specific A; Reference number: I57658; MUID:90066468; PMID:2531281
A; Accession: I57658
A;Map position: 1q31-1q32
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol
C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyc
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A; Residues: 1-31,193-649,'L',651-869,'G',871-872,'A',874-1206,'P',1208-1304
A; Cross-references: GB:Y00062; NID:g34275; PIDN:CAA68269.1; PID:g34276
A; Experimental source: clones pHLC-1 and lambdaHLG1
A; Accession: B29449
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A;Experimental source: clone LCA.1
R;Ralph, S.J.; Thomas, M.L.; Morton, C.C.; Trowbridge,
EMBO J. 6, 1251-1257, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: mRNA
A; Residues: 1-1304 <STR>
A; Cross-references: UNIPROT: P08575;
A; Cross-references: UNIPROT: P08575;
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C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: A46546; B46546; C46546; A29449; B29449; I57658
R;Streuli, M.; Hall, L.R.; Saga, Y.; Schlossman, S.F.; Saito, H.
J. Exp. Med. 166, 1548-1566, 1987
A;Title: Differential usage of three exons generates at least five different A;Reference number: A46546; MUID:88061067; PMID:2824653
                                                                                                          A;Gene: GDB:PTPRC; CD45
A;Cross-references: GDB:119768; OMIM:151460
                                                                                                                                                                        A;Cross-references: GB:M29253; NID:g187020; PIDN:AAA59497.1; PID:g553521
C;Genetics:
                                                                                                                                                                                                                        A; Molecule type: DNA
A; Residues: 146-192 < RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Structural variants of human T200 glycoprotein A;Reference number: A91066; MUID:87275816; PMID:2956090
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: mRNA
A;Residues: 1-31,193-264 <ST3>
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A; Residues: 1-32,99-2
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A;Accession: B46546
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F;644-888/Domain: protein-tyrosine-phosphatase homology <PTP>
F;644,150,161,207,211,218,253,258,290,311,322,347,416,427,457,489,520,556/Binding site:
F;840/Active site: Cys (phosphocysteine intermediate) #status predicted
F;846/Binding site: substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                                                                            A;Status: preliminary; translated from GB/EMBL/DDBJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Status: not compared with conceptual translation
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9; Conserve
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Pred. No.
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A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-1200 <OKU>
A;Residues: 1-1200 <OKU>
A;Cross-references: UNIPROT:Q91054; EMBL:U34750; NID:g1304393; PID:g1335805; PIDN:AAB01:C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homo.C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphata:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Status: preliminary
A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-1237 <FAN>
A;Residues: 1-1237 <FAN>
A;Residues: 1-1237 <FAN>
A;Residues: 1-1237 <FAN>
A;Cross-references: UNIPROT:(091976; EMBL:Z21960; NID:g510510; PIDN:CAA79972.1; PID:g510
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homo
C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphata
F;528-1170/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;528-1170/Domain: leukocyte common antigen cytosolic domain homology <LAC>
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R;Fang, K.S.; Barker, K.; Sudol, M.; Hanafusa, H.
J. Biol. Chem. 269, 14056-14063, 1994
A;Title: A transmembrane protein-tyrosine phosphatase contains
A;Reference number: A54080; MUID:94245724; PMID:8188686
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  probable protein-tyrosine-phosphatase (EC 3.1.3.48) -
Probable protein-tyrosine-phosphatase (EC 3.1.3.48) -
Protein annes: CD45 homolog
C;Spacies: Heterodontus francisci (horn shark)
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #te
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C;Date: 02-Aug-1994 #eequence_revision 02-Aug-1994 #text_change 09-Jul-2004
C:Arcseion. iscano. recen
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                                                                                                                         Query Match
Best Local
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MVWEQKATI 645
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100.0%; Pred. No. 0.:
7ative 0; Mismatches
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Pred. No. 0.49;
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RESULT

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MOl. Cell. Biol. 13, 5513-5523, 1993
A;Title: MTTP delta, a putative murine homolog of HPTP delta, A;Reference number: A54689; MUID:93360986; PMID:8355697
A;Accession: D54689
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                                                                                            N;Contains: protein tyrosine phosphatase, receptor type delta, C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_changer;Date: 0.54689; A54689
C;Accession: D54689; A54689
R;Mizuno, K.; Hasegawa, K.; Katagiri, T.; Ogimoto, M.; Ichikaw: Mol. Cell. Biol. 13, 5513-5523, 1993
                                                                                                                                                                                                                                                                                                   RESULT
D54689
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A;Residues: 1-2466 <RES>
A;Cross-references: UNIPROT:Q12923; GB:D21210; NID:g452191; PIDN:BAA04751.1; PID:g452192
A;Cross-references: UNIPROT:Q12923; GB:D21210; NID:g452191; PIDN:BAA04751.1; PID:g452192
C;Superfamily: protein-tyrosine-phosphatase, nonreceptor type 13; GLGF domain homology;
C;Keywords: phosphoric monoester hydrolase
F;574-868/Domain: protein 4.1 membrane-binding domain homology <B41>
F;1354-1430/Domain: GLGF domain homology <GLG2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein-tyrosine-phosphatase (EC 3.1.3.48) PTPN13, nonreceptor type 13, spl. C;Species: Homo sapiens (man) C;Date: 29-May-1998 #sequence_revision 29-May-1998 #text_change 09-Jul-2004 C;Accession: I67629
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A, Title: Molecular cloning of a novel protein-tyrosine A, Reference number: I53483; MUID:94116679; PMID:8287977 A, Accession: I67629
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A;Status:
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F;2218-2437/Domain:
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A;Residues: 1-2294 <RES>
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C; Species: Homo sapiens (man)
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F;245-299/Domain: immunoglobulin homology <IMM2>
F;317-399/Domain: fibronectin type III repeat homology <FN3A>
F;317-399/Domain: fibronectin type III repeat homology <FN3A>
F;1278-1894/Domain: leukocyte common antigen cytosolic domain homology <I P;1652-1874/Domain: protein-tyrosine-phosphatase homology <PTP2>
F;1652-1874/Domain: protein-tyrosine-phosphatase homology <PTP2>
F;1536/Active site: Cys (phosphocysteine intermediate) #status predicted F;1542/Binding site: substrate phosphate (Arg) #status predicted F;1832/Binding site: substrate phosphate (Arg) #status predicted F;1832/Binding site: substrate phosphate (Arg) #status predicted F;1832/Binding site: substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                 A,Experimental source: brain; splice form C
A,Note: sequence inconsistent with nucleotide translation
A,Note: sequence extracted from NCBI backbone (NCBIN:136527, NCBIP:136530)
C;Superfamily: leukocyte antigen-related protein; fibronectin type III rep
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Residues: 1-1894 <MIZ>
A;Cross-references: UNIPROT:064487
A;Experimental source: brain; splice form B
A;Note: sequence inconsistent with nucleotide
A;Note: sequence extracted from NCBI backbone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Mizuno, K.; Hasegawa, K.; Katagiri, T.; Ogimoto, M.; Ichikav Mol. Cell. Biol. 13, 5513-5523, 1993
A;Title: MPTP delta, a putative murine homolog of HPTP delta, A;Reference number: A54689; MUID:93360986; PMID:8355897
A;Accession: C54689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N;Contains: protein tyrosine phosphatase, receptor type delta, splice form c;Species: Mus musculus (house mouse) C;Species: Mus musculus (house mouse) C;Date: 25-Apr-1995 #sequence revision 19-May-1995 #text_change 09-Jul-2004 C;Accession: C54689; B54689
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           밁
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F;1333/Active site: Cys (phosphocysteine intermediate) #status predicted
F;1339/Binding site: substrate phosphate (Arg) #status predicted
F;1623/Active site: Cys (phosphocysteine intermediate) #status predicted
F;1629/Binding site: substrate phosphate (Arg) #status predicted
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A;Note: sequence inconsistent with nucleotide translation
A;Note: sequence extracted from NCBI backbone (NCBIN:136522, NCBIP:136524)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type delta, splice form B precursor N; Alternate names: MPTP delta type B/C
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F;114-196/Domain: fibronectin type III repeat homology <FN3A>
F;1075-1691/Domain: leukocyte common antigen cytosolic domain homology
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                                                                                                                                                                                                                                                                                                C;Keywords: alternative splicing; glycoprotein;
F;45-107/Domain: immunoglobulin homology <IMM1>
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A; Residues: 1-352,'H',354-535,'S',537-601,1002-1894 <MI2>
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A;Note: sequence shown follows authors' translation at positions 62-63
R;Saras, J; Claesson-Welsh, L.; Heldin, C.H.; Gonez, L.J.
J. Biol. Chem. 269, 24082-24089, 1994
A;Title: Cloning and characterization of PTPL1, a protein tyrosine phosphatase with A;Reference number: A55114; MUID:95014139; PMID:7929060
A;Molecule to the contract of the contract 
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A54971
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A;Molecule type: mRNA
A;Residues: 1-61, 'GS', 64-839, 'D', 841-1055,1075-1133, 'FH', 1136-1210, 'I', 1212-1383,1389-1
A;Cross-references: GB:X80289; NID:g515030; PIDN:CAA56563.1; PID:g515031
A;Cross-references: S; Kitada, S.; Reed, J.C.
Science 268, 411-415, 1995
A;Title: FAP-1: a protein tyrosine phosphatase that associates with Fas.
A;Reference number: I59595; MUID:95232528; PMID:7536343
S
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C;Superfamily: protein-tyrosi
C;Keywords: alternative splic
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A;Residues: 1-61,'GS',64-839,'D',841-1210,'I',1212-1383,1389-2299,'QM',2302-2490
A;Cross-references: GB:D21209; NID:g452189; PIDN:BAA04750.1; PID:g452190
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A;Reference number: I53483; MUID:94116679; PMID:8287977
A;Accession: I53483
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A; Residues: 1279-1888 < RES>
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A; Residues: 1-2490 <BAN>
A; Cross-references: UNIPROT:Q12923;
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A;Accession: A54971
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C;Date: 11-Nov-1994 #sequence revision 08-Feb-1996 #text_change 09-Jul-2004
C;Date: 11-Nov-1994 #sequence revision 08-Feb-1996 #text_change 09-Jul-2004
C;Accession: A54971; A55114; T59595; T53483; S46955
C;Banville, D; Ahmd, S; Stocco, R; Shen, S.H.
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N;Alternate names: Fas-associated phosphatase FAP-1; protein-tyrosine-phosphatase hPT
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                                                                                                           Matches
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A;Nolecule type: mRNA
A;Residues: 1338-1354,'K',1356-1447,'R',1449-1454 <RE2>
A;Cross-references: GB:L34581; NID:g806295; PIDN:AAC420
A;Cross-references: GB:L34581; NID:g806295; PIDN:AAC420
                                                                                                                                                                                                                                      A; Molecule type: protein
A; Residues: 1098-1102 < MOL>
A; Residues: 1098-1102 < MOL>
A; Experimental source: submaxillary glands
R; Sato, T.; Irie, S.; Kitada, S.; Reed, J.C.
Science 268, 411-415, 1995
A; Title: FAP-1: a protein tyrosine phosphatase that associates with Fas.
A; Reference number: I59595; MUID:95232528; PMID:7536343
A; Accession: I81210
                                                                                                                                                                                                                                                                                                                                                                                                                        A;Title: Epidermal growth factor-binding protein activates A;Reference number: S67987; MUID:96105375; PMID:7498536 A;Accession: S67987
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A;Accession: JC8052
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A; Residues: 1329-1354, 'K', 1356-1447, 'R', 1449-1454 <RES>
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A;Residues: 1-2450 <CHI
A;Residues: 1-2450 <CHI
A;Cross-references: UNIPROT:Q64512; UNIPROT:Q62370; EMBL:D83966; NID:g1232103;
A;Experimental source: strain DBA/2; cell line MEL 745A
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Biochem. Biophys. Res. Commun. 312, 531-536,
A;Title: Gonadotropin-releasing hormone gene
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C;Species: Oryzias latipes (Japanese medaka)
C;Date: 09-May-2004 #sequence_revision 09-May-2004 #text_change 09-May-2004
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A;Experimental source: (Brain)
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A; Residues: 1-680 <OKU>
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                                                                                                  A;Status: preliminary; translated
                                                                                                                     A;Accession: I81209
                                                                                                                                           A;Cross-references: GB:L34582; NID:g806297; PIDN:AAC42056.1;
                                                                                                                                                                                                                 A;Status: preliminary; translated from GB/EMBL/DDBJ
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       PIDN:AAC42055.1;
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submitted to the EMBI
A;Description: Assess
A;Reference number: S
A;Accession: S40290
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A;Authors: Kahn, D.; Kahn, M.L.; Kalman, S.; Keating, D.H.; Kiss, E.; Komp, C.; Lelaure, hebault, P.; Vandenbol, M.; Vorholter, F.J.; Weidner, S.; Wells, D.H.; Wong, K.; Yeh, K. A;Title: The composite genome of the legume symbiont Sinorhizobium meliloti.
A;Reference number: A96039; MUID:21368234; PMID:11474104
protein-tyrosine-phosphatase (
N;Alternate names: PTPase MEG2
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F;1361-1437/Domain: GLGF domain homology <GLG2>
F;1361-1437/Domain: GLGF domain homology <GLG3>
F;1495-1574/Domain: GLGF domain homology <GLG3>
F;1769-1840/Domain: GLGF domain homology <GLG4>
F;1863-1937/Domain: GLGF domain homology <GLG5>
F;2803-2422/Domain: GLGF domain homology <GLG5>
F;2803-2422/Domain: protein-tyrosine-phosphatase homology <PTP1>
F;2374/Active site: Cys (phosphocysteine intermediate) #status pu
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C; Superfamily -
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A;Title: The complete sequence of the 1,683-kb pSymB megaplasmid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical membrane protein [imported] - Sinorhizobium meliloti (strain 1021) magaplas
C;Species: Sinorhizobium meliloti
C;Date: 24-Aug-2001 #sequence_revision 24-Aug-2001 #text_change 09-Jul-2004
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A; Residues: 2266-2372 <HEN>
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A;Accession: H95854
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Keywords: phosphoprotein; phosphoric monoester hydrolase; transmembrane;
566-860/Domain: protein 4.1 membrane-binding domain homology <B41>
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A;Molecule type: mRNA
A;Residues: 1-597 <DEL>
A;Residues: 1-597 <DEL>
A;Cross-references: UNIPROT:Q91871; GB:L33099; NID:g495671; PIDN:AAA21728.1; P
A;Experimental source: ovary
A;Experimental source: ovary
C;Superfamily: protein-tyrosine-phosphatase, nonreceptor type 9; cellular reticing protein-tyrosine-phosphatase, nonreceptor type 9; cellular reticing protein-tyrosine-phosphatase, tyrosine-specific C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific F;38-277/Domain: cellular retinaldehyde-binding protein homology <CRB>
F;318-564/Domain: protein-tyrosine-phosphatase homology <PTP>
F;318-564/Domain: protein-tyrosine-phosphatase homology <PTP>
F;328-564/Domain: protein-tyrosine-phosphatase homology <PTP>
F;328-564/Domain: spotein-tyrosine-phosphatase homology <PTP>
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C;Date: 25-Oct-1994 #sequence_revision 18-Nov-1994 #text_change (C;Date: E5978 F.C;Accession: B53978 R;Del Vecchio, R.L; Tonks, N.K.
J. Biol. Chem. 269, 19639-19645, 1994
A;Title: Characterization of two structurally related Xenopus laughter than the control of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structurally related Xenopus laughter than the characterization of two structura
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A;Map position: 1q32.1-1q32.1
C;Superfamily: protein-tyrosine-phosphatase, nonreceptor type 9; cellular C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-speci P;48-237/Domain: cellular retinaldehyde-binding protein homology <CRB> F;327-563/Domain: protein-tyrosine-phosphatase homology <PTP> F;327-563/Domain: protein-tyrosine-phosphatase homology <PTP> F;315/Active site: Cys (phosphocysteine intermediate) #status predicted
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Proc. Natl. Acad. Sci. U.S.A. 89, 2984, 1992
A;Title: Cloning and expression of a cytosolic megakaryocyte
A;Reference number: A42690; MUID:92212952; PMID:1557404
A;Accession: A42690
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C;Date: 03-May-1994 #sequence_revision 26-May-1994 #text_change 09-Jul-2004
C;Accession: A42690
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A; Residues: 1-593 <GUA>
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Pred. No.
                                                                                                                                                                                                                                                                  Score 36;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OM protein - protein search, using sw model
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 on
Pred. No.
                                                                                                                                                                                                                                                     DB B
                                                                                                                                                                                                                                                   seq length: 0 seq length: 2000000000
                          A_Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2000s:*
4: geneseqp2001s:*
5: geneseqp2002s:*
6: geneseqp2003as:*
7: geneseqp2003bs:*
8: geneseqp2004s:*
                                                                                                                                                                                                                                                                                                                                                                                                              US-10-003-983C-7
44
1 LLAFGFAFL 9
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                                                                                                                                                                                                                                                                                                                                                                                   BLOSUM62
                                                                                                                                                                                                                                                                                                                                 2105692 seqs, 386760381 residues
                                                                                                                                                                                                                                                                                                                                                                 Gapop 10.0 , Gapext 0.5
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Maximum Match 100%
Listing first 45 sm
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Copyright
                                         geneseqp2002s:*
geneseqp2003as:*
geneseqp2003bs:*
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2005, 07:29:17; Search time 48 Seconds (without alignments)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.
                                                                                                                                                                                         summaries
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            72.518 Million cell updates/sec
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score d. No. is the number of results predicted by chance to have a re greater than or equal to the score of the result being printed, is derived by analysis of the total score distribution.

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7	6	ហ	4	w	N	1	No.	Result	
44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	Score		
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ABU05244	ABU05241	ABU05243	ADQ39376	ADP12966	ADM67187	ADR39747	ABU05242	AAM41048	ADQ18845	ADL16232	ABU05245	ABU05240	ABU07334	AAM39262	ABU07333	AAM23689	AAY64914	AAY64916	AAG00095	AAY64915	ADP24555	AAW35875	ABG31985	ABG31977	ID		SUMMARIES
Abu05244 Human exp	Human	Human		Protei	Human	Adr39747 Human kin	-	Human	Adq18845 Human sof	Human		 Adp24555 PRO polyp 	Leader	Human	7 Hum												

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

WPI; 2002-599413/64.

Stauss HJ,

Amrolia PJ;

Claim 2; Page 38; 56pp; English.

45	44	43	42	41	40	39	38	37	36	35	34	w	32	31	30	29	28	27	. !
36	36	37	37	37	37	37	38	38	38	39	39	40	40	44	44	44	44	44	
81.8	81.8	84.1	84.1	84.1	84.1	84.1	86.4	86.4	86.4	88.6	88.6	90.9	90.9	100.0	100.0	100.0	100.0	100.0	
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σ	7	N	N	ω	w	w	œ	7	8	7	σ	6	σ	œ	8	œ	œ	7	
ABU19540	ABO61284	AAW89347	AAW44729	AAG44166	AAG44167	AAG44168	ADM67208	ADL16234	ABO84453	ADH87882	ADA34931	ABU21519	ABU22641	ADQ39375	ADQ39380	ABO84455	ADM67209	ADP65158	
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Abu19540	Abo61284	Aaw89347	Aaw44729	Aag44166	Aag44167	Aag44168	Adm67208	Adl16234	Abo84453	Adh87882	Ada34931	Abu21519	Abu22641	Adq39375	Adq39380	Abo84455	Adm67209	Adp65158	
Protein e	Klebsiell	Chicken t	Chicken p	Arabidops	Arabidops	Arabidops	Murine ad	Mouse pro	Mouse can	Enterococ	Acinetoba	Protein e	Protein e	Human myo	Human myo	Human can	Human adi	Human pro	

ALIGNMENTS

RESULT 1
ABG31977
ID ABG31977
ID ABG31977
ID O5-N
AC ABG3
XX A Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic; haematopoietic; malignant. 30-NOV-2000; 2000WO-GB004566. 30-NOV-2000; 2000WO-GB004566 06-JUN-2002. WO200244207-A1. Human CD45 HLA-binding peptide, huCD45/7. 05-NOV-2002 (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD Homo sapiens. ABG31977; ABG31977 standard; peptide; 9 AA. (first entry)

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RESULT 2
ABG31985
ID ABG3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antigen-presenting cell contains an expression vector including the polymucleotides encoding the CD45 peptides. The activated CTLs are useful for killing, and in the manufacture of a medicament for target cells coxpressing the CD45 peptides in a pattent. A T cell receptor (TCR), recognising cells expressing the CD45 peptides, is useful for killing target cells (cancer cells) in a pattent which involves obtaining CTLs from the pattent, introducing into the CTLs the polymucleotide encoding the TCR and then introducing the cells thus produced into the patient who has undergone an allogenic stem cell transplantation. Thunour reactive CTLs have been shown to mediate tumour regression in animals models by the inhibition of colony forming unit-granulocyte macrophage (CTU-GM) colony formation. The cancer is leukaemia which expresses the CD45 polypeptide. The method is useful as an immunotherapeutic for treating a patient with haematopoietic malignancy or to target and kill cells which captes the CD45 polypeptide. The advantage this method provides is that the CTLs destroy the malignant haematopoietic cells but not the comparising an HLA-binding nentide of human CD45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 9
The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human; CD45; human leukocyte antigen; HIA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia;
                                                                                                                               Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               colony forming unit-granulocyte macrophage; immunotherapeutic; haematopoietic; malignant.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              comprising an HLA-binding peptide of human CD45
                                                                                               Claim 2;
                                                                                                                                                                                                               WPI; 2002-599413/64.
                                                                                                                                                                                                                                                                                                                             30-NOV-2000; 2000WO-GB004566
                                                                                                                                                                                                                                                                                                                                                                30-NOV-2000; 2000WO-GB004566
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human CD45 HLA-binding peptide, huCD45/6.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABG31985 standard; peptide; 10
                                                                                                                                                                                                                                                                                        (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD.
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                                                                                            Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LLAFGFAFL
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                                                                                                                                                                                                                                                    Amrolia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                               38;
                                                                                            56pp;
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                                                                                               English.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ٥,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Gaps
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RESULT 3
AAW35875
ID AAW3
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CC call, where its major histocompatibility complex (MHC) class I molecules care loaded with the peptide, to activate, in an antigen-presenting cc are loaded with the peptide, to activate, in an antigen specific manner, cc where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The cc antigen-presenting cell contains an expression vector including the CG for killing, and in the manufacture of a medicament for, target cells cexpressing the CD45 peptides. The activated CTLs are useful crecognising cells expressing the CD45 peptides, is useful for killing cc expressing the CD45 peptides, is useful for killing cc from the patient, introducing into the CTLs the polynucleotide encoding the TCR and then introducing into the CTLs the polynucleotide encoding cc from the patient, introducing the cells thus produced into the patient who has undergone an allogenic stem cell transplantation. Tumour reactive cc CTLs have been shown to mediate tumour regression in animals models by the inhibition of colony forming unit-granulocyte macrophage (CTU-GM) colony formation. The cancer is leukaemia which expresses the CD45 polypeptide. The malignancy or to target and kill cells which express the CD45 polypeptide. The sequence presented is the peptide, huCD45/6, comprising an HLA-binding peptide of human CD45
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
                                                                T lymphocyte veto molecule comprising response cell activating protein linked to molecule that targets stimulator cell marker, used for selective suppression of immune response, e.g. prevention of graft
                                                                                                                                                                                                                                                                                                                                                                                                                            targetting polypeptide; suppression; immune response autoimmune disease; allergy; immunological disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                            transplant rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                              I lymphocyte veto molecule; chimeric molecule; leader
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                27-APR-1998 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAW35875 standard; peptide;
                                                                                                                                     WPI; 1997-512419/47.
                                                                                                                                                                                                                                                                        10-APR-1997;
                                                                                                                                                                                                                                                                                                          16-OCT-1997.
                                                                                                                                                                                                                                                                                                                                            WO9737687-A1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Leader sequence for use in T lymphocyte veto molecule.
                                                rejection
                                                                                                                                                                       Staerz
                                                                                                                                                                                                        (NAJE-) NAT
                                                                                                                                                                                                                                        10-APR-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10 AA;
                                                 molecule that targets stimulator cell marker, used for suppression of immune response, e.g. prevention of graft or treatment of auto-immune disease.
                                                                                                                                                                                                        JEWISH CENT IMMUNOLOGY & RESPIRATORY
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                immune response;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 treatment;
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Disclosure; Page 90; 309pp; English

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RESULT 4
ADP24555
ID ADP2
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                                                                                                                                            Clark H,
Wu TD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A novel protein
                                                                        New PRO polypeptides and polynucleotides, useful for treating e.g. erythematosus, rheumatoid arthritis, diabetes mellitus, immune-mediated renal disease, or demyelinating diseases of the central or peripheral
                                                                                                                WPI; 2004-419628/39.
N-PSDB; ADP24554.
The invention relates to a novel isolated nucleic acid and the PRO polypeptide encoded by it. A protein of the invention has antiinflammatory, antiarthritic, antirheumatic, immunosuppressive, osteopathic, antidiabetic, dermatological, antipsoriatic, antialle
                                                Claim
                                                                                                                                                                                          01-NOV-2002; 2002US-0423394P
                                                                                                                                                                                                             30-OCT-2003; 2003WO-US034312
                                                                                                                                                                                                                                                   WO2004041170-A2
                                                                                                                                                                                                                                                                                                PRO; antiinflammatory; antiarthritic; antirheumatic; immunosuppressive; osteopathic; antidiabetic; dermatological; antipsoriatic; antiallergic;
                                                                                                                                                                                                                                                                                                                             PRO polypeptide
                                                                                                                                                                                                                                                                                                                                                  18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                     ADP24555 standard; protein; 34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
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                                                                                                                                                                                                                                 21-MAY-2004
                                                                                                                                                                                                                                                                                         antiasthmatic;
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                                                                                                                                                                        GENENTECH INC.
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                                                                  system
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             T lymphocyte veto molecule is a chimeric molecule comprising a linked to a targetting polypeptide, e.g. the present sequence, linked to a targetting polypeptide, a.g. the present sequence, a host cell from a tissue.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23
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                                                                                                                                                    Schoenfeld J,
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                                                                                                                                                                                                                                                                                                                                                (first entry)
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                                                IJ
                                                                                                                                                                                                                                                                                       hepatotropic; respiratory; gene therapy; immune system.
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                                                                                                                                                                                                                                                                                                                              SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 immunosuppression
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                                              2940pp;
                                                                                                                                                     Van Lookeren M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 44;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                       A
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                                               English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0.25;
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                                                                                                                                                    Williams PM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 23
                                                                                                                                                     Wood WI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
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antiallergic,

Claim 3;

Page 680;

837pp;

English

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RESULT 5
AAY64915
ID AAY6
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            disease, erythema multiforme, contact dermatitis, psoriasis, an allergic disease, asthma, allergic rhinitis, atopic dermatitis, food hypersensitivity, urticaria, an immunologic disease of the lung, eosinophilic pneumonia, idiopathic pulmonary fibrosis, hypersensitivity pneumonitis, a transplantation associated disease, graft rejection or
                                         Novel secreted protein 5' diagnostic, forensic, gen
                                                                                                                                                                                                      09-APR-1998;
28-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                             gene therapy; chromosome mapping; upstream regulatory sequence;
location; development; protein synthesis; stability; regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   antiasthmatic, hepatotropic, and respiratory activity. A polynucleotic of the invention may have a use in gene therapy. The PRO polypeptide, agonist, antagonist, or antibody that specifically binds to the polypeptide is useful for treating an immune related disorder such as systemic lupus erythematosus, rheumatoid arthritis, osteoarthritis, juvenile chronic arthritis, a spondyloarthropathy, systemic sclerosis,
                                                                                          N-PSDB; AAZ42529.
                                                                                                                                       Dumas Milne Edwards
                                                                                                                                                                                                                                                    09-APR-1999;
                                                                                                                                                                                                                                                                                                                 WO9953051-A2
                                                                                                                                                                                                                                                                                                                                                                                                                             Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human 5' EST related polypeptide SEQ ID NO:1076.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAY64915 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         idiopathic inflammatory myopathy, Sjogren's syndrome, systemic vasculitis, sarcoidosis, autoimmune haemolytic anaemia, autoimmune
                                                                                                           WPI; 2000-038446/03
                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAY64915;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                graft-versus-host
                                                                                                                                                                      (GEST ) GENSET.
                                                                                                                                                                                                                                                                                                                                                                              identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                             5' EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 LLAFGFAFL 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  34
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                      98US-00057719
98US-00069047
                                                                                                                                                                                                                                                                                                                                                                                                                             expressed sequence tag; secreted protein; diagnosis;
                                                                                                                                                                                                                                                    99WO-IB000712
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disease. The present sequence represents a PRO protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein; 42
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15
                                                                                                                                       'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                         gene
                                                                                                                                       Duclert A,
                                         expressed
me therapy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       autoimmune haemolytic anaemia, autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 44;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                          sequence tag
                                                                                                                                       Giordano
                                            chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 34;
                                         sequences used
ne mapping proce
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Indels
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                                            procedures
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sclerosis,
                                                                                                                                                                                                                                                                                                                                                                                                              forensic;
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RESULT 6
AAG00095
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Best Local S
Matches S
Human; 5' EST;
gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 42
                                                                                                                                                                                                                                                                  New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and fo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EP1033401-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AAG00095 standard; protein; 60
                                                                                                                                                                                   Claim 13; SEQ ID NO 4176; 71pp + Sequence Listing; English
                                                                                                                                                                                                                                         diagnostic, forensic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-FEB-2000; 2000EP-00200610
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     06-SEP-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AAZ42265 to AAZ43075 represent novel 5' expressed sequence tag (EST)
                                                                                                                                                                                                                                                                                                                                                                                                                                  Dumas Milne Edwards
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                2000-500381/45.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              5' EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 LLAFGFAFL 9
                                                                                                                                                                                                                                                                                                                                                   AAC00101
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     LLAFGFAFL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                                                                                 is a polypeptide encoded by one of a large number of
                                                                                                                                                                                                                                         gene therapy and chromosome
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                  Duclert
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  sequence tag; secreted protein; cDNA isolation;
mapping.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 44; DB 3; Length 42; Pred. No. 0.45;
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                                                                                                                                                                                                                                                                                                                                                                                                                                  Giordano
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                                                                                                                                                                                                                                         mapping procedures
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CR sequences, corresponding to human secreted proteins. AAY64651 to AAX43052.

CR represent the EST-related proteins corresponding to AAX42265 to AAZ43052.

CR The 5' ESTs can be used for producing secreted human gene products. They

CR can be used to identify and isolate 5' untranslated regions (UTR8) and

CR upstream regulatory regions which control the location, development

CR tage, rate, and quantity of protein synthesis, as well as stability of

CR mRNA. The ESTs are also useful as probes for chromosome mapping, and to

CR obtain full length cDNA clones. The ESTs can also be used in forensic

CR procedures to identify individuals, or in diagnostic procedures to

CR concedures to identify individuals, or in diagnostic procedures to

CR concedures to identify individuals, or in greated in gene therapy protocols. The

CR concedures to acids encoding signal peptides can be used for directing

CR extracellular secretion of a polypeptide or the insertion of a

CR polypeptide into a membrane, or importing a polypeptide into a cell. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  09-APR-1998;
28-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; 5' EST; expressed sequence tag; secreted protein; diagnosis; gene therapy; chromosome mapping; upstream regulatory sequence; for location; development; protein synthesis; stability; regulation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 60 AA;
                                                                                                                                                                                                                                                                                           Claim 3; Page 680; 837pp; English.
                                                                                                                                                                                                                                                                                                                             Novel secreted protein 5' expressed diagnostic, forensic, gene therapy,
                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Dumas Milne Edwards J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      09-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human 5' EST related polypeptide SEQ ID NO:1077
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-FEB-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAY64916 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               identification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (GEST ) GENSET
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                                                                                                                                                                                                                                                                                                                                                                                                      2000-038446/03
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  98US-00057719
98US-00069047
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      99WO-IB000712.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                        Duclert A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 44; DB 3;
Pred. No. 0.65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                             sequence tag sequences used in and chromosome mapping procedures.
                                                                                                                                                                                                                                                                                                                                                                                                                                          Giordano
                                                                                                                                                                                                                                                                                                                                                                                                                                        4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     forensic;
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proteins

encoded by the EST sequences may be useful in treating

a variety

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RESULT 8
ANY64914
ID ANY64914
ID ANY64914
ANY649
CC AAZ42265 to AAZ43075 represent novel 5' expressed sequence tag (EST)
CC sequences, corresponding to human secreted proteins. AAY64651 to AAY6348
CC represent the EST-related proteins corresponding to AAZ426548
CC The 5' ESTs can be used for proteins corresponding to AAZ4265 to AAZ43052.
CC The 5' ESTs can be used for producing secreted human gene products. They
CC can be used to identify and isolate 5' untranslated regions '(UTRs) and
CC upstream regulatory regions which control the location, development
CC stage, rate, and quantity of protein synthesis, as well as stability of
CC mRNA. The ESTs are also useful as probes for chromosome mapping, and to
CC obtain full length cDNA clones. The ESTs can also be used in forensic
CC procedures to identify individuals, or in diagnostic procedures to
CC identify individuals having genetic diseases resulting from abnormal gene
CC expression. The products may also be used in gene therapy protocols. The
CC nucleic acids encoding signal peptides can be used for directing
CC extracellular secretion of a polypeptide or the insertion of a
CC polypeptide into a membrane, or importing a polypeptide into a cell. The
CC proteins encoded by the EST sequences may be useful in treating a variety
CC identification of new secreted proteins have therapeutic value, and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Novel secreted protein 5' expressed diagnostic, forensic, gene therapy,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene therapy; chromosome mappir location; development; protein identification.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-APR-1998;
28-APR-1998;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Dumas Milne Edwards
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (GEST ) GENSET
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          09-APR-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-FEB-2000 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   5' EST; expressed sequence tag; secreted protein; diagnosis;
herapy; chromosome mapping; upstream regulatory sequence; forensic;
on; development; protein synthesis; stability; regulation;
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9; Conserv
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98US-00069047
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 837pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Duclert A,
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Pred. No. 0.95;
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                                                                                                                                              The present invention provides the protein and coding sequences of novel proteins from a variety of organisms; including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is a protein of the invention
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17-JUL-2000; 2000US-00617746
03-AUG-2000; 2000US-00631451
15-SEP-2000; 2000US-00663870
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; tomato; monkey; dog; sea urchin; expressed sequence tag; EST diagnostics; forensic test; gene mapping; genetic disorder;
                                                                                                    Sequence 641
                                                                                                                                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                    Isolated polypeptide for treatment of diseases, antibodies and research use.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2001-476164/51.
N-PSDB; AAH98348.
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100.0%; Score 44; DB: ilarity 100.0%; Pred. No. 7.2; Conservative 0; Mismatches
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A, Zhang
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tragment of a kinase, phosphatase, protease, which comprises a cc transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a cc mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this cc polypeptide, is useful for treating cancer. The polypeptide is also conseful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptide is also compounded that binds to a naturally processed CC polypucleotides are particularly useful for treating or preventing compounds. The polypeptide is also converted as a converted as a
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21-MAY-2001; 2001US-029544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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9; Conserv
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                                                                                                                                     100.0%; ilarity 100.0%; Conservative 0;
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                                                                                                                                             Score 44; DB 6;
Pred. No. 7.2;
Mismatches 0
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RESULT 11
AAM39262
                                                          23-DEC-1999;
21-JAN-2000;
25-APR-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's, Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                             Wang
                                                                                and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification
                                                                                                                                                                                            encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polypucleotides are useful in gene therapy. A composition containing a polypedide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  AAM39262;
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                                                                                                                                      Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
                                                                                                                                                                                                                                                                                                                                  as central nervous
                                                                                                                                                                                                                                                                                                                                              Novel nucleic acids and polypeptides, useful for
                                                                                                                                                                                                                                                                                                                                                                          N-PSDB; AAI58418.
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19-OCT-2000;
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03-AUG-2000;
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                                                                                                                                                                                                                                                                            The invention relates to human nucleic acids (AAI57798-AAI61369) and
                                                                                                                                                                                                                                                                                                       Example 4; SEQ ID NO 2407; 10078pp; English.
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Wang Z,
Goodrich
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; 2000US-00488725.
; 2000US-00552317.
; 2000US-00552312.
; 2000US-00620312.
; 2000US-00662191.
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; 2000US-00662191.
; 2000US-00662191.
100.0%; Score 44; DB 4; Length 664; ilarity 100.0%; Pred. No. 7.5; Conservative 0; Mismatches
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Wehrman T,
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                                                                  Query Match
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336780P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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   Similarity 9; Conserv
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100.0%; ilarity 100.0%; Conservative 0,
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                                   Score 44; DB 6; Length 664; Pred. No. 7.5;
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                                                                         polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, marcoma, melanoma lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at the color of 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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21-MAY-2001;
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04-DEC-2001;
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                                                   ftp.wipo.int/pub/published_pct_sequences
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; 2001US-032544P.
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Local Similarity

100.0%; Score 44; ilarity 100.0%; Pred. No. Conservative 0; Mismatch

Mismatches

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                                                                                                            The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor. The transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypeptide are particularly useful for treating or preventing oplynucleotides are particularly useful for screening agents for lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at from wino int/nuh/mihitahed not sequences.
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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receptor; transcription factor; cancer; MHC;
major histocompatability complex; myeloma; colon cancer; gastric cancer;
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                                                                      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Translational profiling; expressed protein tag; EPT; kinase; phosphatase;
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                                                                                                   ftp.wipo.int/pub/published_pct_sequences
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                  Local
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 l Similarity
9; Conserva
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   Conservative
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                  100.0%;
                100.0%; Score 44;
100.0%; Pred. No.
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   Mismatches
                                  DB 6; Length 1143;
   Indels
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Gaps
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Query Match Best Local S Matches

Similarity 9; Conserv

100.0%;

Score 44; DB Pred. No. 13; Mismatches

DB 7;

Length 1143; Indels

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Conservative

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ADL16232
ID ADL166
AC ADL1
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                                                                                                 The invention relates to a method for identifying a protein tyrosine CC phosphatase (PTP) that is reversibly oxidized in a cell by: (i) that is reversibly oxidized in a cell by: (i) sample, including a cell that contains at least one PTP, to CC conditions that cause reversible oxidation of PTP; (ii) isolating PTP (CC anaerobically, in presence of a sulfhydryl-reactive agent (II) that crive conditions that cause reversible oxidation of PTP; (ii) isolating PTP (CC anaerobically, in presence of a sulfhydryl-reactive agent (II) that crive expensibly modifies the thiol group of an invariant Cys in the active CC of fephosphorylation, caused by PTP, of a labelled substrate (III), where CC dephosphorylation indicates that an active PTP is present. No details CC of tests for these activities are given. The method is used to identify CC reversibly oxidized PTP, also to identify agents that: (a) reversibly CC modify such PTP; or (b) alter inducible signalling pathways in which PTP CC are involved. These agents are potentially useful, in human or veterinary CC medicine, for treating abnormal cell proliferation or growth (cancer); cquest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein tyrosine phosphatase; reversible oxidation; dephosphorylation;
inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 81; 238pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    13-FEB-2002;
12-FEB-2003;
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2003US-00366547.
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RESULT 17
AAM41048
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AC AAM41
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ADQ18845
ID ADQ18
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                             sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both stissue samples and comparing the expression of the soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has expressing the sample in the sample in the sample in the sample in the sample of protein expression in the first soft tissue sarcoma.
              Human polypeptide SEQ ID NO 5979
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                                                                                                                                                                  Sequence 1143 AA;
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                                               22-OCT-2001
                                                                                                            AAM41048 standard; protein; 1149
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human
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                                                                                                                                                                                                                      1 LLAFGFAFL 9
                                                                                                                                                                                                                                                    Similarity 9; Conserv
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                                                                                                                                                                                                                                                                  Score 44;
Pred. No.
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RESULT 18
ABU05242
ID ABU05
XX
AC ABU05
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AC ABU05
XX
DT 29-JA

ABU05242 standard;

protein;

1149

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29-JAN-2003 ABU05242;

(first entry)

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Best Local S
Matches 9
                                                                                                                                   in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and c.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tang
Wang
                                                                                                              Sequence 1149
                                                                                                                                                                                                                                                                                                              The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful
                                                                                                                                                                                                                                                                                                                                                                                                     Novel nucleic acids and polypeptides, useful for treating as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2001-442253/47.
N-PSDB; AAI60204.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Zhou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; SNy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                        Example 2; SEQ ID NO 5979; 10078pp; English.
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19-JUL-2000;
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25-APR-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       03-AUG-2000;
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12 LLAFGFAFL
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                                                                    Similarity
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                LLAFGFAFL
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2000US-00552317.

2000US-00598042.

2000US-00620312.

2000US-00623450.

2000US-00652191.

2000US-00693036.

2000US-00727344.
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Wehrman T,
20
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                                                                   100.0%;
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                                                     ; Score 44; DB; Pred. No. 13; 0; Mismatches
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Xu C,
IC RT,
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Yang Y,
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Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                     disorders such
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J, Zhao QA;
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Human expressed

protein tag

(EPT) #1908

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RESULT 19
ADR39747
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                                                                                                                                                                                                                                                                                                         The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for aliciting in a colony peptide. The purified polypeptide, or the antibody that binds to this polypeptide. It is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypeptides and polypeptides and colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                 Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                proteass; procease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0392544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
18-NOV-2004
                               ADR39747;
                                                            ADR39747 standard; protein; 1192 AA.
                                                                                                                                                                                                                                                                  Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-MAR-2002; 2002WO-US009671.
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                                                                                                                                                                                                                                                                                         cification but was obtained in electronic .wipo.int/pub/published_pct_sequences
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(first entry)
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                                                                                                                                                                                                                                                                    AA,
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Pred. No.
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13;
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antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                                                                               28-MAR-2003;
09-APR-2003;
                                                                                                                                       20-FEB-2003;
19-MAR-2003;
                                                                                                                                                                                                                                20-FEB-2004;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human
                                                                                                                                                                                                                                                                                                                                             WO2004074453-A2
                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
(INCY-) INCYTE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                kinase and phosphatase KPP-20 protein SEQ ID NO:20
                                                  ; 2003US-0449059P.
; 2003US-0456932P.
; 2003US-0458844P.
; 2003US-0461678P.
; 2003US-0463937P.
                                                                                                                                                                                                                                2004WO-US005092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     phosphatase protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KPP;
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New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections. Claim 1; SEQ ID NO 20; 299pp; English.

Ramkumar J, Marquis Becha SD, Lee SY, H Jackson AA, Yang J,

is JP, Swarnak Hafalia AJA, J, Gorvad AE;

Swarnakar A, Chawla NK, Tran U ia AJA, Richardson TW, Khare R,

Tran UK;

Jiang

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N-PSDB; ADR39793.

2004-635568/61.

with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polynucleotide and compounds that specifically bind to or modulate the activity of the polypeptide. invention have cytostatic, antiarteriosclerotic, anticonvulsant, nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antiinflammatory and thyromimetic activities, and can be used in gene therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated The present sequence represents the human kinase and phosphatase protein (KPP), designated KPP-20. The human KPP sequences from the present

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        Query Match
Best Local S
Matches 9
                Sequence 1192
9
   1 LLAFGFAFL
        Similarity
9; Conserv
        Conservative
                AA;
17
          100.0%;
        ٥,
          Score 44;
Pred. No.
        Mismatches
            DB
            8;
            Length 1192;
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        Gaps
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RESULT 20 ADM67187 ID ADM67 ADM67187 standard; protein; 1256

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RESULT 2:
ADP12966
ID ADP:
  XXX
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Best Local (
                                                                                                                                            Matches
                                                                                                                                                                                                             identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                             of any two different mice selected from a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nuclectides and the encoded proteins thereof were
                                                                                                                                                                                                                                                                                                                               is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (MAT) or strongly vascular tissue (NT) between the white adipose tissue (NT) or strongly vascular tissue (NT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
            ADP12966;
                                                                                                                                                                                         Sequence 1256
                                                                                                                                                                                                                                                                                                                                                                                This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-obesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and
                                 ADP12966 standard; protein; 1256
                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 541; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB;
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12-JUN-2003; 2003US-0478206P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adipogenesis;
antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         high mobility
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human adipocyte specific PTPase receptor type C protein SeqID 541.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   adipocyte specific;
                                                                                                                                          Similarity 9; Conserv
                                                                                                                    LLAFGFAFL 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; hypertension; cardiovascular disease; anorectic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ø
                                                                                                                                                     100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adipose tissue; anti-obesity;
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                                                                                                                                                     Score 44; DB
Pred. No. 14;
                                                                                                                                            Mismatches
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RESULT 22
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1256 AA;
Human myocardial infarction-associated gene derived protein,
                                                                                                             ADQ39376;
                                                                                                                                                                    ADQ39376 standard; protein; 1258
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20-DEC-2002; 2002US-00325899.
                                                         18-NOV-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     24-APR-2003; 2003WO-US012946
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                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
9; Conserv
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                                                                                                                                                                                                                                                                                                           LLAFGFAFL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         g or monitoring transplant rejection, e.g. heart, kidney, liver pancreatic islet, lung, bone marrow or stem cell transplant, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rejection;
ry bowel dia
                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                   (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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sease; multiple sclerosis; HIV; AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Woodward R,
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Myocardial infarction; detection; cardiant; gene therapy; human.

single

nucleotide

polymorphism;

SNP;

therapy;

cardiant;

gene

Homo sapiens

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RESULT 23
ABU05243
ID ABU05
XX
AC ABU05
XX
DT 29-JJ
XX
DE Humai
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                                                                                                                                                                                                                                                                                                                                                                                                    CC B contiguous mucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody that specificatly binds to the polypeptide or its antigen-binding CC fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the CC polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the CC polymucleotide; an agent useful in treating or preventing cC method for identifying an agent useful in treating or preventing cC The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or CC composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from CC associated gene containing one or more SNP's of the invention. Note: This capture is a sequence and shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least
                   Human expressed protein tag (EPT) #1909
                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453153P.
30-ADR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                         29-JAN-2003 (first entry)
                                                                                                                                 ABU05243 standard; protein; 1304
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB; ADQ38548
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|LLAFGFAFL 17
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                                                                                                                                                                                                                                                                                                                  100.0%;
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Pred. No.
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RESULT 24
ABU05241
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AC ABU00
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DT 29-J
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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Translational profiling; expressed protein tag; EPT; kina protease; protease inhibitor; transporter, cytoskeletal protease; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                   expressed protein tag (EPT) isolated from human tissue for traprofiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-OCT-2001;
04-DEC-2001;
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08-AUG-2001;
ABU05241 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                       Sequence 1304 AA;
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Similarity 100.0%;
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2001US-0336780P.
2002US-0358985P.
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2001US-0310801P.
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Pred. No. 15;
0; Mismatches
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29-JAN-2003 (first entry)
Human expressed protein tag

(EPT) #1907

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RESULT 25
ABU05244
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DT 29-0
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Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                              transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed of the province of the protein tag is the contract of the printed diseases. The profiling is provinced to the protein tag that the printed of the province of the printed diseases. The printed diseases of the printed diseases of the printed diseases of the printed diseases of the printed diseases.
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-031001P.
01-OCT-2001; 2001US-0336780P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                 Human expressed protein tag (EPT) #1910
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                         29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                               Sequence 1304 AA;
                                                                                                                                ABU05244 standard; protein; 1304 AA
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ilarity 100.0%;
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ADL16230
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XC
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ADL16230 standard;

protein; 1304 AA.

06-MAY-2004 (first entry)

Human protein tyrosine phosphatase #26

맑 δ

Matches Query Match Best Local

9 Similarity

Conservative

0

Score 44; DB Pred. No. 15; 0; Mismatches

DB 15; 9 0,

Length 1304;

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Gaps

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100.0%;

1 LLAFGFAFL

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LLAFGFAFL 15

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The invention describes a purified polypeptide, which comprises a configuration of a kinase, photsphatase, protease, protease inhibitor, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypeptide is also polypeutides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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                                     ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer);
                                                                                                                                                                                                                                                                                                                                                                                                                                                          guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
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                                                      Human protein tyrosine phosphatase, receptor type, C, isoform
                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer or autoimmune disease.
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 autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induced; immunosuppressive
                                                                                                                                                                ADP65158 standard; protein; 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 79; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g.
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immunosuppressive; antirheumatic;
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RESULT 28 ADM67209 ID ADM67

ADM67209 standard; protein; 1304 AA

ADM67209;

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1 LLAFGFAFL

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Query Match Best Local S Matches 9

Similarity 9; Conserv

100.0%; Score 44; Dilarity 100.0%; Pred. No. 15 Conservative 0; Mismatches

15; В

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gene expression signature to diagnose or analyse the autoimmune disease or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention further comprises: a treatment of rheumatoid arthritis; identification of genes for targeting in the treatment of rheumatoid arthritis in a mammal other than a mouse; diagnosis of rheumatoid arthritis in a mammal; an array or gene chip, specific for rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; screening the efficacy of a candidate drug in vitro for the treatment of collageninduced arthritis; and reducing the symptoms associated with collageninduced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic,
                                                                                                                                          antigout, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as rheumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, fibrositis, and an fibromyalgia, osteoarthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
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immunomodulatory; lupus; ankylosing spondylitis; Fibrositis;
fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
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Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             patient sample containing mRNA, analysing gene expression using the mRN that results in a gene expression signature of the mRNA, and using that
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 autoimmune disease or arthritides. The method comprises obtaining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a novel method for diagnosing and analysing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NP_002829.
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                                                                                                                                                                                                                                                                                                                 This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                              Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissumice of different genotypes.
Human cancer-associated protein HP13-011.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                   18-NOV-2004
                                                                                                  AB084455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JUL-2003; 2003WO-US023684
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                                                                                                                                                                               Similarity
9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              adipocyte specific; adipose tissue;
                                                                                               standard; protein; 1304
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                                  (first entry)
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                                                                                                                                                                                                                                                                               DB 8; Length 1304;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              anti-obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SeqID 563
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cc recombinant nucleic acid or expression vector, a microarray for detecting cc cancer associated (CA) nucleic acid comprising at least one probe cc comprising at least 10 contiguous nucleotides of any of the above-mentioned nucleotide sequences, an isolated polypeptide (encoded within CC an open reading frame of a CA sequence selected from any of the 95 cc complement), an isolated antibody, (or its antigen binding fragment) that composition composition comprising the above cc monoclonal antibody, a pharmaceutical composition comprising the above cc antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer cells (comprising the presence or absence of cancer cells in an individual, a method for delivering a therapeutic agent to cancer cc individual, a method for delivering a therapeutic agent to cancer cc individual, an electronic library comprising the above polypeptide (or their fragments), methods of screening cr associated with expression of a polypeptide in a test cell sample, a second for treating cancer and a method for inhibiting the expression of a golypeptide in a test cell sample, a cancer cancer activity or for a bioactive agent to cancer composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and clukaemia. These may also be used in screening for agents that modulate cancer data for this patent did not form part of the printed cancer the present sequence is a human CAP protein format directly from WIPO at the printed of a term will be above the above the sequence. Note: The specification, but was obtained in electronic format directly from WIPO at the published act agents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polymucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              claim 18; seqid 147; 310pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           17-FEB-2004; 2004WO-US004730
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (SAGR-)
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                                                                                          ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SAGRES DISCOVERY INC
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Query Match Best Local S Matches 9

Similarity 9; Conserv

Conservative

100.0%; Score 44; D)
100.0%; Pred. No. 15
tive 0; Mismatches

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Length 1304;

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LLAFGFAFL 15

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LLAFGFAFL LLAFGFAFL 15

ADQ39375 standard; protein; 1306

18-NOV-2004 (first entry)

ADQ39375;

Best Local Similarity Matches 9; Conserv

Conservative 9

100.0%; Pred. No.

15;

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Mismatches

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comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from
                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide
Sequence 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cardiant; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Myocardial infarction; detection; single nucleotide polymorphism; SNP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; ADQ38552.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2004058052-A2
                                     sequence was not shown in the specification. The an electronic sequence listing downloaded from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-533949/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 1043; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             infarction-associated gene derived protein, SEQ ID 1043.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Iakoubova 0;
                                        The sequence
om the WIPO we
                                                                has
                                                              come from
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RESULT 31
ADQ39375
ID ADQ35
XX
AC ADQ35
XX

N-PSDB;

2004-533949/51.

Cargill M,

Devlin JJ,

Iakoubova 0;

(APPL-) APPLERA CORP.

Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism

Claim 10; SEQ ID NO 1038; 145pp; English.

the individual's nucleic acids

20-DEC-2002; 10-MAR-2003; 30-APR-2003; 23-SEP-2003;

; 2002US-0434778P. ; 2003US-0453135P. ; 2003US-0466412P. ; 2003US-0504955P.

22-DEC-2003; 2003WO-US040978

WO2004058052-A2 Homo sapiens cardiant; gene therapy;

human.

Myocardial infarction; detection;

Human myocardial infarction-associated gene derived protein, SEQ ID 1038.

single nucleotide

polymorphism; SNP;

Query Match

100.0%;

Score 44;

DB 8;

Length 1304;

acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length, a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This

sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. No sequence was not shown in the specification. The sequence has com

Note:

The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification of the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification or its complement and encoding any one of the specification of t

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GenCore version 5.1.6 (c) 1993 - 2005 Compugen

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7	6	5	4	L	2	_	Result No.
49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	Score
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ADL16230	ABU05244	ABU05241	ABU05243	ADQ39376	ADP12966	ADM67187	ADR39747	ABU05242	AAM41048	ADQ18845	ADL16232	ABU05245	ABU05240	ABU07334	AAM39262	ABU07333	AAM23689	AAY64914	AAY64916	AAG00095	AAY64915	ADP24555	AAW35875	ABG31985	ID
Adl16230 Human pro	Human		Human	Adq39376 Human myo	Adp12966 Protein e	Adm67187 Human adi	Adr39747 Human kin			Human		Abu05245 Human exp				Abu07333 Human exp	Aam23689 Human EST			Human		Adp24555 PRO polyp	Aaw35875 Leader se	Abg31985 Human CD4	Description

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
37	37	37	38	38	39	39	40	40	42	42	43	43	43	44	49	49	49	49	49
75.5	75.5			77.6			81.6		85.7	85.7	87.8	87.8	87.8	89.8	100.0	100.0	100.0	100.0	T00.0
198	171	164	289	78	467	230	567	400	1237	1237	1343	1291	1157	9	1306	1304	1304	1304	1304
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AAG44166	AAG44167	AAG44168	ABU39540	ADM26258	ADH87882	ADA34931	ABU21519	ABU22641	AAW89347	AAW44729	ADM67208	ADL16234	ABO84453	ABG31977	ADQ39375	ADQ39380	ABO84455	ADM67209	ADP65158
Aag44166	Aag44167	Aag44168	Abu39540	Adm26258	Adh87882	Ada34931	Abu21519	Abu22641	Aaw89347	Aaw44729	Adm67208	Adl16234	Abo84453	Abg31977	Adq39375	Adq39380	Abo84455	Adm67209	Adp65158
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ALIGNMENTS

RESULT 1 ABG31985 Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-CM; leukaemia; colony forming unit; granulocyte macrophage; immunotherapeutic; colony forming unit; granulocyte macrophage; immunotherapeutic; Human CD45 HLA-binding peptide, huCD45/6. 06-JUN-2002. WO200244207-A1. Homo sapiens. 05-NOV-2002 (first entry) ABG31985 standard; haematopoietic; malignant. ABG31985; peptide; 10 A

30-NOV-2000; 2000WO-GB004566.

30-NOV-2000; 2000WO-GB004566.

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

Stauss HJ, Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytocoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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CC polynuclectides encoding the CD45 peptides. The activated CTIs are useful CC for killing, and in the manufacture of a medicament for, target cells CC expressing the CD45 peptides in a patient. A T cell receptor (TCR), CC recognising cells expressing the CD45 peptides, is useful for killing CT target cells (cancer cells) in a patient which involves obtaining CTLs (C from the patient, introducing into the CTLs the polynucleotide encoding CC from the patient, introducing the cells thus produced into the patient who has undergone an aligenic stem cell transplantation. Tumour reactive CC the inhibition of colony formity unit-granulocyte macrophage (CFU-GM) CC colony formation. The cancer is leukaemia which expresses the CD45 polypeptide. The method is useful as an immunotherapeutic for treating a CC patient with haematopoietic malignancy or to target and kill cells which express the CD45 polypeptide. The sequence presented is the peptide, huCD45/6, CC comprising an Hia, binding peptide of human CD45
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Best Local Similarity 100
Matches 10; Conservative
A novel T lymphocyte veto molecule is a chimeric molecule comprising protein linked to a targetting polypeptide, e.g. the present sequence that binds a molecule, which differentiates a host cell from a tissue graft cell, or selectively targets a stimulator cell involved in the autoimmune response. A veto molecule, in which the protein binds a
                                                                                                                                                           Tlymphocyte veto molecule comprising response cell activating protein linked to molecule that targets stimulator cell marker, used for selective suppression of immune response, e.g. prevention of graft rejection or treatment of auto-immune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       targetting autoimmune
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                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                              WPI; 1997-512419/47.
                                                                                                                                                                                                                                                                                                                                                                                    10-APR-1996;
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disease; allergy; immunological disorder;
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សិស្តិសិស្តិសិស្តិសិស្តិសិស្តិសិស្តិសិស្តិ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          molecule that targets stimulator cells, can be used to suppress an immune response and therefore treat autoimmune diseases, e.g. systemic lupus erythematosus, myssthenia gravis, rheumatoid arthritis, insulin dependent diabetes mellitus, multiple sclerosis, coeliac disease, autoimmune thyroiditis, Addison's or Grave's diseases and rheumatoid carditis, allergies and other immunological disorders. Where the protein binds a molecule that differentiates graft and host cells, the veto molecule can be used to reduce transplant rejection. The veto molecule provides specific regulation of particular stimulator cells that can kill graft cells or respond to autoantigens, but leave other stimulator rells unaffected, e.g. CD4 or CD8 positive cells can be regulated without one affecting the other. The veto molecule can be administered locally to minimise generalised immunosuppression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRO; antiinflammatory; antiarthritic; antirheumatic; immunosuppressive; osteopathic; antidiabetic; dermatological; antipsoriatic; antiallergic; antiasthmatic; hepatotropic; respiratory; gene therapy; immune system.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                                                                                                      New PRO polypeptides and polynucleotides, useful for treating e.g. erythematosus, rheumatoid arthritis, diabetes mellitus, immune-mediat renal disease, or demyelinating diseases of the central or peripheral
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DB; ADP24554.
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Pred. No. 0.031;
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dependent
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polypeptide encoded by it. A protein of the invention has antiinflammatory, antiarthritic, antirheumatic, immunosuppressive, osteopathic, antidiabetic, dermatological, antipsoriatic, antiallergic, antiasthmatic, hepatotropic, and respiratory activity. A polynucleotide of the invention may have a use in gene therapy. The PRO polypeptide, it agonist, antagonist, or antibody that specifically binds to the polypeptide is useful for treating an immune related disorder such as

The invention relates to a novel isolated nucleic acid and the

PRO

systemic lupus erythematosus, rheumatoid

osteoarthritis,

108

Claim 7;

SEQ ID NO 1733; 2940pp; English

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RESULT 4
AAY64915
ID AAY6
XX AAY6
AC AAY6
AC AAY6
XX Huma
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KW Gene
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                              AAZ42265 to AAZ43075 represent novel 5' expressed sequence tag (EST) sequences, corresponding to human secreted proteins. AAX64651 to AAX43052. represent the EST-related proteins corresponding to AAZ42265. to AAZ43052. The 5' ESTs can be used for producing secreted human gene products. They
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28-APR-1998;
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                                                                                                                                                                                                                                                                                           Novel secreted protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Dumas Milne Edwards J,
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                                                                                                                                                                                                                                                            forensic,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               98US-00057719,
98US-00069047.
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                                                                                                                                                                                               837pp; English.
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he therapy,
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Giordano
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          (UTRs) and
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RESULT 5
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       upstream regulatory regions which control the location, development stage, rate, and quantity of protein synthesis, as well as stability of mRNA. The ESTs are also useful as probes for chromosome mapping, and to obtain full length cDNA clones. The ESTs can also be used in forensic procedures to identify individuals, or in diagnostic procedures to identify individuals, or in diagnostic procedures to identify individuals, or in diagnostic procedures to expression. The products may also be used in gene therapy protocols. The nucleic acids encoding signal peptides can be used for directing extracellular secretion of a polypeptide or the insertion of a polypeptide into a membrane, or importing a polypeptide into a cell. The proteins encoded by the EST sequences may be useful in treating a variety of human conditions. Secreted proteins-have—therapeutic value, and the identification of new secreted proteins is valuable. AAZ42249 to AAZ42264
                                          The present sequence is a polypeptide encoded by one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. The 5' ESTs were prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranslated region (UTR) of the mRNA because they are often obtained from oligo-dr primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where
                                                                                                                                                                                                             New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures.
                                                                                                                                                                                 Claim 13; SEQ ID NO 4176;
                                                                                                                                                                                                                                                                                      N-PSDB; AAC00101.
                                                                                                                                                                                                                                                                                                    WPI; 2000-500381/45.
                                                                                                                                                                                                                                                                                                                                    Dumas Milne Edwards J,
                                                                                                                                                                                                                                                                                                                                                                                                                                        21-FEB-2000; 2000EP-00200610
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; 5' EST; expressed sequence tag; secreted protein; cDNA isolation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-OCT-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human secreted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAG00095 standard;
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                                                                                                                                                                                                                                                                                                                                                                        GEST ) GENSET
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                                                                                                                                                                                                                                                                                                                                      Giordano
                                                                                                                                                                                                                                                                                                                                      J,
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longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and catherefore be used to obtain full length cDNAs and genomic DNAs. 5'

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RESULT 6
AAY64916
ID AAY6
              Sequences, corresponding to human secreted proteins. AAY6453 to AAY65438 crepresent the EST-related proteins corresponding to AAZ42265 to AAX45538 crepresent the EST-related proteins corresponding to AAZ42265 to AAX43052. The 5' ESTs can be used for producing secreted human gene products. They can be used to identify and isolate 5' untranslated regions (UTRs) and upstream regulatory regions which control the location, development stage, rate, and quantity of protein synthesis, as well as stability of mRNA. The ESTs are also useful as probes for chromosome mapping, and to obtain full length cDNA clones. The ESTs can also be used in forensic procedures to identify individuals, or in diagnostic procedures to procedures to identify individuals, or in process resulting from abnormal gene expression. The products may also be used in gene therapy protocols. The nucleic acids encoding signal peptides can be used for directing extracellular secretion of a polypeptide into a membrane, or importing a polypeptide into a cell. The proteins encoded by the EST sequences may be useful in treating a variety of human conditions. Secreted proteins have therapeutic value, and the candotte for the AAX42264 to AAX42660 represent sequences used in the AAX42249 to AAX42264.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
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28-APR-1998;
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identification of new secreted proteins is valuable. and AAY64644 to AAY64650 represent sequences used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        AAZ42265 to AAZ43075 represent novel 5' expressed sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 3; Page 680; 837pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    diagnostic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel secreted protein 5' expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    forensic, gene therapy,
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98US-00069047.
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Pred. No.
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                                       stage, rate, and quantity of protein synthesis, as well as stability of mRNA. The ESTs are also useful as probes for chromosome mapping, and to obtain full length cDNA clones. The ESTs can also be used in forensic procedures to identify individuals, or in diagnostic procedures to identify individuals, or in diagnostic procedures to identify individuals having genetic diseases resulting from abnormal gene expression. The products may also be used in gene therapy protocols. The nucleic acids encoding signal peptides can be used for directing extracellular secretion of a polypeptide or the insertion of a polypeptide into a membrane, or importing a polypeptide into a cell. The proteins encoded by the EST sequences may be useful in treating a variety of human conditions. Secreted proteins have therapeutic value, and the identification of new secreted proteins is valuable. AAZ42249 to AAZ42264 and AAZ64646 to AAZ6450 represent sequences used in the exemplification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                      sequences, corresponding to human secreted proteins. AAY64651 to AAY65431 represent the EST-related proteins corresponding to AAZ42265 to AAZ43052 The 5' ESTs can be used for producing secreted human gene products. They can be used to identify and isolate 5' untranslated regions (UTRs) and upstream regulatory regions which control the location, development upstream regulatory regions which control the location, development
                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2000-038446/03
N-PSDB; AAZ42528.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; 5' EST; expressed sequence tag; secreted protein; diagnosis; gene therapy; chromosome mapping; upstream regulatory sequence; forensic; location; development; protein synthesis; stability; regulation;
                                                                                                                                                                                                                                                                                                                                                                                                        diagnostic, forensic,
                                                                                                                                                                                                                                                                                                                                                                                                                         Novel secreted protein
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28-APR-1998;
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                                                                                                                                                                                                                                                                                                                                                                      Claim 3; Page 679; 837pp; English.
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                                                                                                                                                                                                                                                                                                                                         AAZ42265 to AAZ43075 represent novel 5' expressed sequence
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                                invention
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98US-00069047.
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                                                                                                                                                                                                                                                                                                                                                                                                        therapy,
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Pred. No. 0.12;
Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                          and chromosome
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                                                                                                                                                                                                                                                                                                                                                                                                     me mapping procedures.
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RESULT 9
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ID ABU0
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AAM23689
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Best Local
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Best Local
                                                                                                                                                                         cow, pig, hamster, monkey, macaque, yeast, urchin and tomato. These were derived from from the organism of interest. They can be forensics, gene mapping, identification of biodiversity and for mutritional purposes. protein of the invention
ABU07333 standard; protein; 641 AA.
                                                                                                                                                                                                         The present invention provides the protein and coding sequences of novel proteins from a variety of organisms, including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, formers and the protein and the organism of interest. They can be used in diagnostics,
                                                                                                                                                                                                                                                                                                                                                                                                                                       25-JAN-2000; 2000US-00491404.
17-JUL-2000; 2000US-00617746.
03-AUG-2000; 2000US-00651451.
15-SEP-2000; 2000US-00663870.
                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                Claim 20; Page 875-876; 1275pp; English.
                                                                                                                                                                                                                                                                                                          Isolated polypeptide for treatment of diseases, antibodies and research use.
                                                                                                                                                                                                                                                                                                                                                                                         Tang YT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-JAN-2001; 2001WO-US002687.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diagnostics;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human EST encoded protein SEQ ID NO: 1214.
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                                                                                                                                                                                                                                                                                                                                                                                                                 (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                       2001-476164/51
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                                                                                                                    Similarity
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                                                                        KLLAFGFAFL 10
                                                                                                                                                     641 AA;
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                                                                                                                                                                                                                                                                                                                                                                                         Liu C,
                                                                                                         Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            nutrition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dog; sea urchin;
                                                                                                                                                                                                                                                                                                                                                                             Zhou P,
A, Zhang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cow; fruit fly; yeast; hamster; macaque; horse;
g; sea urchin; expressed sequence tag; EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein; 641
                                                          17
                                                                                                                  100.0%;
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                                                                                                                 Score 49;
Pred. No.
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Pred. No.
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                                                                                                       Mismatches
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an T;
                                                                                                               . 0.88;
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                                                                                                                            DB 4;
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                                                                                                                                                                                    The present sequence is a
                                                                                                                                                                                                  mutations, to assess
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                                                                                                                            Length 641;
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RESULT 10 AAM39262 ID AAM39

AAM39262 standard; protein; 664 AA

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The invention describes a purified polypeptide, which comprises a configuration of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The cytoskeletal as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this cyolypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MFC-binding polypeptide. The polypeptides and colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                  Matches
                                                                                                                                                Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                          Sequence 641 AA;
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21-MAY-2001; 2001US-0292544P.
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                                                                                                                                                                                                                                                        ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  adenocarcinoma;
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                                                                                                                          Local
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                                           1 KLLAFGFAFL
                                                                                                                          Similarity
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                                                                                               100.0%; ! ilarity 100.0%; ! Conservative 0;
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2002US-0358985P
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2001US-0326370P.
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Pred. No. 0.8
0; Mismatches
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Best Local S
Matches 10
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21-JAN-2000; 2000US-00488725.
25-APR-20000; 2000US-00552317.
20-JUN-2000; 2000US-00598042.
19-JUL-2000; 2000US-00620312.
03-AUG-2000; 2000US-00653450.
14-SEP-2000; 2000US-00653136.
19-CCT-2000; 2000US-00653134.
29-NOV-2000; 2000US-00653134.
                                                                                                                                immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and c.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification
                                                                                                                                                                                                                                                                                                                   The invention relates to human nucleic acids (AAI57798-AAI61369) and encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                                                                                                                                                                                                                                                                                                                                                                       Novel nucleic acids and polypeptides, useful as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2001-442253/47.
N-PSDB; AAI58418.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; &By-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                         Sequence
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                                                                  Similarity
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Wang Z,
Goodrich
                                                                                                           664
                        KLLAFGFAFL 10
                                                  Conservative
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Wehrman T,
h R, Drmanac
                                                                 100.0%;
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Xu C,
IC RT;
                                                                  Score 49;
Pred. No.
                                                     Mismatches
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Xue
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RESULT 11
ABU07334
ID ABU077
XX ABU077
XX ABU077
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XX ABU077
XX Human
XX Transs
XW Prote
XW Prote
XW MO200
XX Homo
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                                                                                                                                                                                                                                                                                The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide, is useful as an immunogenic composition for eliciting in a commandation of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed generation but was obtained in electronic format directly from WIPO at fip.wipo.int/pub/published_pct_sequences
                                                                                                                  Query Match
Best Local Similarity
Matches 10; Conserv
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326770P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                        Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 2;
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   KLLAFGFAFL 17
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                                                                                                                     Conservative
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                                                                                                                  Score 49; DB 6
Pred. No. 0.91;
Mismatches
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                                                                                                                                                                          Length 664
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                                                                                                                  Gaps
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RESULT 12
ABU05240
ID ABU05240
XX ABU05240
XX ABU05240
XX ABU05240
AX ABU05
XX Trans
KW Trans
KW Trans
KW Protee
KW recep
KW recep
KW adeno
XX Homo
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                                                                                                                                                                                                                                                                                                                          The invention describes a purified polypeptide, which comprises a confidence of a kinase, phosphatase, protease, protease inhibitor. The fragment of a kinase, phosphatase, protease, protease inhibitor. The composite, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide or the antibody that binds to this polypeptide. It is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypeptides and polypeptide. The polypeptides and colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                      Query Match
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336730P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                                                                                               Sequence
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                                                                                                                                                      Similarity
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                                                       KLLAFGFAFL 10
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                                                                                                                      Conservative
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Pred. No.
                                                                                                                      Mismatches
                                                                                                                                             1.6;
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RESULT 13
ABU05245
ID ABU05245
AC ABU05245
AC ABU05245
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21-MAY-2001;
08-AUG-2001;
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08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                                                      Sequence 1143
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                                                                                                      Similarity
KLLAFGFAFL
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                                                                       Conservative
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                                                                                                   100.0%;
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                                                                   Score 49; DB Pred. No. 1.6; Mismatches
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                                                                                                                                                                                                                                                                               The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify modify such PTP, or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer);
                                                                                                                                                                                                                                     guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       screening
cancer or
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                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        81; 238pp; English.
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                                                                                                                                         Score 49; DB 7; Length 1143; Pred. No. 1.6;
                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
          peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
                                             Human; nootropic; immunosuppressant; cytostatic; gene therapy;
peripheral nervous system; neuropathy; central nervous system;
                                                                                                                                                                    AAM41048;
                                                                                                                                                                                                  AAM41048 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2; SEQ ID NO 1664; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-441208/41.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Aziz N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                26-NOV-2002; 2002US-0429739P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-NOV-2003; 2003WO-US038193
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   soft tissue sarcoma; cytostatic; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human soft tissue sarcoma-upregulated protein - SEQ ID 1664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-AUG-2004
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                                                                                            Human polypeptide SEQ ID NO 5979.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-JUN-2004.
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                                                                                                                                   22-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (PROT-)
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                                                                                                                                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                        Ā
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            relates to
                                                                                                                                                                                                protein; 1149
                                                                                                                                                                                                                                                                                      15
                                                                                                                                                                                                                                                                                                                                                                     100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            a novel method for detecting soft tissue sarcoma
                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                     Score 49; DB | Pred. No. 1.6; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                     8,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vaccine; screening;
                                                                                                                                                                                                                                                                                                                                                                                     Length 1143;
                                                                                                                                                                                                                                                                                                                                                         Indels
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                                                                cancer;
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RESULT 17
ABU05242
ID ABU052
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AC ABU05
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DT 29-JI
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DT 19-JI
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KW Trans
KW prote
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21-JAN-2000;
25-APR-2000;
20-JUN-2000;
19-JUL-2000;
03-AUG-2000;
                                                                                                                                                                                                                                                                                                                                    assays
C.N.S d
                                                                                                                                                                                                                                                                                                                                                            immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Inmune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, hemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening,
Translational profiling; expressed protein tag; EPT; kinase; phoprotease; protease inhibitor; transporter; cytoskeletal protein;
                                                                                                                                                                                                                                                                                              Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel nucleic acids and polypeptides, useful as central nervous system injuries.
                                         Human expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to human nucleic acids (AAI57798-AAI61369) and encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                                                   29-JAN-2003
                                                                                                                     ABU05242 standard; protein; 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                 thrombolytic activity, cancer diagnosis and therapy, drug screening, ys for receptor activity, arthritis and inflammation, leukaemias and S disorders. Note: The sequence data for this patent did not form of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             L'a'A
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                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                      KLLAFGFAFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 5979; 10078pp; English.
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2000US-00552317.

2000US-00598042.

2000US-00620312.

2000US-00633450.

2000US-00652191.

2000US-00693036.

2000US-00693036.
                                                                                                                                                                                                                                          Conservative
                                                                  (first entry)
                                                                                                                                                                                                                                                                                              8
                                        protein tag (EPT) #1908.
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                                                                                                                                                                                                                                                     100.0%;
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urman T, Xu C,
Drmanac RT;
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                                                                                                                                                                                                                                                     Score 49; DB 4;
Pred. No. 1.6;
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                                                                                                                                                                                                                                                                 Length 1149;
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Zhang J,
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             phosphatase;
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Zhao
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                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-033570P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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21-MAY-2001; 2001US-0292544P
                                                                                                                                                                                             ADR39747 standard; protein; 1192 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                    Local Similarity
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                                                                                                           (first entry)
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100.0%; Pred. No. 1.0
cive 0; Mismatches
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1.6;
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human; kinase and phosphatase protein; KPP; enzyme; cytostatic; antiarteriosclerotic; anticonvulsant; nootropic; neuroprotectiv

neuroprotective;

Human

kinase

and phosphatase

KPP-20 protein

SEQ ID

NO:20

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RESULT 19
ADM67187
ID ADM67
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. AIDS, epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, allergies) and developmental (e.g. Hypochyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polymucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2003; 2003US-0449059P.

19-MAR-2003; 2003US-0456932P.

28-MAR-2003; 2003US-0458644P.

09-APR-2003; 2003US-0461678P.

17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ramkumar J, Marquis JP, Swarnakar A, Chawla NK, Tran UI
Becha SD, Lee SY, Hafalia AJA, Richardson TW, Khare R,
Jackson AA, Yang J, Gorvad AE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                03-JUN-2004
                                                   ADM67187;
                                                                                                                                                                                                                                                                                                                    Sequence 1192 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (KPP), designated KPP-20. The human KPP sequences from the present invention have cytostatic, antiarteriosclerotic, anticonvulsant, nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antiinflammatory and thyromimetic activities, and can be used in gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1; SEQ ID NO 20; 299pp; English.
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                                                                                     ADM67187
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
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                                                                                                                                                                                                                                              10;
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                                                                                                                                                                                                               1 KLLAFGFAFL 10
                                                                                                                                                                                                                                                                Similarity
                                                                                     standard;
                                                                                                                                                                           KLLAFGFAFL 17
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                (first entry)
                                                                                   protein; 1256
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                                                                                                                                                                                                                                                                Score 49; Pred. No. 1
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                                                                                                                                                                                                                                                                               Length 1192;
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ADP12966
ID ADP12
XX ADP12
XX ADP12
XX IDP12
XX IDP12
XX IDP12
XX IDF1

ADP12966 standard;

protein; 1256

12-AUG-2004

(first entry)

transplant rejection; immune system; rheumatoid arthritis; lupus;

Protein encoding referenece mRNA sequence #51.

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This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti-
cobesity pharmaceutical compositions. Specifically, it refers to a high-
mobility group I-C protein (HMGI-C) that is associated with obesity and 
is epistatic to leptin, furthermore, it refers to the observe where an 
autosomal recessive trait is linked to obesity and diabetes. The present 
invention describes performing differential gene expression analysis 
between the white adipose tissue (MAT) or stromal vascular tissue (SVT) 
of any two different mice selected from a group consisting of wild-type, 
the first of that are adipocyte specific, and as such can be used for 
preventing adipogenesis, diagnosing and treating diabetes, obesity, 
hypertension and cardiovascular disease, as well as screening for 
compounds that can modulate or prevent adipogenesis and treat diabetes or 
obesity. These compositions exhibit anorectic, antidiabetic and 
human homologue of 
mysterial adipogenesis. This polypeptide sequence is a human homologue of
                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            high mobility adipogenesis; antidiabetic;
                                                                                                                                                                                                                                              Sequence 1256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human adipocyte specific PTPase receptor type C protein SeqID
                                                                                                                                                                                                                                                                                                       a murine adipocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 541; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-JUL-2003; 2003WO-US023684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2004011618-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-143846/14
DB; ADM66908.
                                                                                                                        10;
                                      1 KLLAFGFAFL
   σ
                                                                                                                                                        Similarity
KLLAFGFAFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chouinard R,
                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; hypertension; cardiovascular disease; anorectic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                 Ŗ,
                                                                                                                                                                                                                                                                                                       specific protein
                                                                                                                                               100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ashar H,
                                                                                                                            0
                                                                                                                                                     Score 49; DB |
Pred. No. 1.7;
                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sayed AMD
                                                                                                                                                                                                                                                                                                       sequence of
                                                                                                                                                                                     DB 8; Length 1256;
                                                                                                                            0
                                                                                                                                                                                                                                                                                                              the invention.
                                                                                                                            Indels
                                                                                                                            <u>,</u>
                                                                                                                            Gaps
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RESULT 21
ADQ39376
ID ADQ39376
AC ADQ39
XX ADQ39
XX Humal
XX Myoca
KW Card
XX Card
XX Homo
XX Homo
XX Homo
XX Homo
PN W020
PF 15-J
XX 22-D
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                                                                                                                                                                                                                                                                                                                          Ś
                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to diagnosing or monitoring transplant crejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic cislet, lung, bone marrow or stem cell transplant rejection, in an individual. The methods are also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered expression in renal transplantation and expression.
                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
 22-DEC-2003; 2003WO-US040978.
                            15-JUL-2004
                                                       WO2004058052-A2
                                                                                                                   Myocardial infarction; detection; single nucleotide polymorphism;
                                                                                                                                                                            18-NOV-2004
                                                                                                                                                                                                                               ADQ39376 standard; protein; 1258
                                                                                                                                                                                                                                                                                                                                                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 65;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-APR-2002;
20-DEC-2002;
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                                                                                                        gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ
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                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                          (first entry)
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2002US-00325899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   bowel disease; multiple sclerosis; HIV; AIDS
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                                                                                                        therapy;
                                                                                                                                                infarction-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NO 2975; 1762pp; English.
                                                                                                                                                                                                                                                                                                 15
                                                                                                                                                                                                                                                                                                                                                                   100.0%;
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                                                                                                                                                                                                                                                                                                                                                     ٥,
                                                                                                                                                                                                                                                                                                                                                                   Score 49;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                       Mismatches
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                                                                                                                                              gene
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                                                                                                                                              derived protein, SEQ
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                                                                                                                                                                                                                                                                                                                                                     0;
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                                                                                                                                                                                                                                                                                                                                                    Gaps
                                                                                                                      SNP;
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RESULT 22 ABU05243 ID ABU05

ABU05243 standard;

protein; 1304

0

XXXXXXXXXXXXXXX

Human expressed protein tag

29-JAN-2003

(first entry)

Translational

profiling; expressed protein tag;

(EPT) #1909.

protease; protease innibitor, cancer; MHC; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; cadenocarcinoma; sarcoma; melanoma; lymphoma;

myeloma; colon cancer;
; lymphoma; leukaemia.

gastric cancer;

cytoskeletal

EPT;

kinase; protein;

phosphatase;

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                                                                                                                                                                CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least CC 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino CC acid sequence given in the specification; an antibody comprising an amino acid sequence given in the specification; an antibody that specification and which is between about 16 and 1000 nucleotides in CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity.
                                                                                                 Query Match
Best Local
                                                                                                                                                                                                  composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note sequence was not shown in the specification. The sequence has come an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                      The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing composition for treating or preventing myocardial infarction. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                                             Sequence 1258 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; SEQ ID NO 1039; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the individual's nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (APPL-)
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                                      1 KLLAFGFAFL
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                                                                                                 Similarity
  KLLAFGFAFL
                                                                                Conservative
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  17
                                    10
                                                                                                 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 to a novel method for identifying an inc
or developing myocardial infarction. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      acids.
                                                                             0,
                                                                             Score 49; DE
Pred. No. 1.7
0; Mismatches
                                                                                            DB
                                                                                                                    8
                                                                                0
                                                                                                                    Length 1258;
                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      individual who
                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         an antibody
                                                                                                                                                                                                                                                  Note:
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ABU05241
ID ABU0524
XX ABU05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor.

C transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (BPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed sequence in the printed sequence that was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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21-MAY-2001; 2001US-0295344P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                       Translational profiling; expressed protein tag; EPT; kinase; protease; protease inhibitor; transporter; cytoskeletal prote receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                       Human expressed
                                                                                                                                                                                                                               29-JAN-2003
                                                                                                                                                                                                                                                                                       ABU05241;
                                                                                                                                                                                                                                                                                                                                               ABU05241 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1304
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chicz
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           KLLAFGFAFL 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         KLLAFGFAFL
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                                                                                                                                                                                                                            (first entry)
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                                                                                                                                                                    protein tag
                                                                                                                                                                                                                                                                                                                                            protein; 1304 AA.
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     melanoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
                                                                                                                                                                       (EPT) #1907
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 49; DE
Pred. No. 1.8
); Mismatches
     lymphoma; leukaemia
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, 1.8;
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                                                                                     protein;
                          gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>,</u>
                                                                                                            phosphatase;
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  RESULT 24
ABU05244
ID ABU05
XX
AC ABU05
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AC ABU05
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DT 29-JJ
DT 29-JJ
CX
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Trans
KW Trans
KW prote
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Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MIC; major histocompatability complex; myeloma; colon cancer; gastric cancer;

complex;

myeloma; colon cancer;
; lymphoma; leukaemia.

Human 29-JAN-2003 ABU05244;

expressed protein tag

(EPT)

#1910

(first entry)

ABU05244 standard;

protein;

1304 AA

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Z X S X
Query Match
Best Local S
Matches 10
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                        The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational
                                                                                                    expressed protein tag (RPT) isolated from human tissue for traprofiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly if tp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200278524-A2
                                                                      Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; SEQ ID NO 1907; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-OCT-2002.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    leukemia.
 10;
                  Similarity
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 Conservative
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                100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      kinases, phosphatases, proteases, transporters receptors or transcription factors), useful for
                                   .0%;
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 0;
Score 49; DB 6
Pred. No. 1.8;
0; Mismatches
                                   6;
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                                   Length 1304;
   Indels
   <u>,</u>
                                                                                                                              from WIPO
   Gaps
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RESULT 25
ADL16230
ID ADL16
XX
AC ADL16
XY
AC ADL16
XY
O6-M2
XX
OF Human
XX
KW Cytos
KW prote
KW prote
KW induc
KW guest
KW cell
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                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC useful for identifying compounds that binds to a naturally processed CC useful for class I MHC-binding polypeptide. The polypeptide is also CC useful for class I MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local :
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorde cell-cycle abnormality; enzyme.
                                                                                                                                      06-MAY-2004
                                                                                                                                                                                                       ADL16230
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-040607/03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      ftp.wipo.int/pub/published_pct_sequences
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10; Conserv
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                                                                                                                                                                                                     standard;
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2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
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                                                                                                                                   (first entry)
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Pred. No. 1.8;
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               allergy; metabolic disorder
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ADP65158
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                                                                                                                                                                                                                                                                                                                                                                                                        Matches
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Best Local S
                           autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumatic antiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunosmodulatory; lupus; ankylosing spondylitis; Fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1304 AA;
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                                                                                                                                       Human
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12-FEB-2003; 2003US-00366547
                ımmune;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                abnormalities.
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                                                                                                                                      protein tyrosine phosphatase, receptor type,
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                                                                                    immunosuppressive; antirheumatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antigout, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as rheumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, fibrositis, fibromyalgia, osteoarthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  gene expression signature to diagnose or analyse the autoimmune disease or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention further comprises: a treatment of rheumatoid arthritis; identification of genes for targeting in the treatment of rheumatoid arthritis in a mammal other than a mouse; diagnosis of rheumatoid arthritis; diagnosis or array or gene chip, specific for rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; screening the efficacy of a candidate drug in vitro for the treatment of collageninduced arthritis; and reducing the symptoms associated with collagendativities: immunosuppressive, antirheumatoid, antiarthritic, osteopathic, antirottes artificial arms for the antirheumatoid, antiarthritic, osteopathic, antirottes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
human; adipocyte specific; adipose tissue; anti-obesity;
                                                                  Human adipocyte specific leukocyte common antigen protein SeqID 563
                                                                                                                                            03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1304
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                                                                                                                                                                                                                                                                                    ADM67209 standard; protein; 1304
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2003-712740/67.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1.8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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RESULT 28
ABO84455
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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Best Local &
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            between the white addpose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, HMGI-C-/-, ob/ob, or HMGI-C-/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing addpogenesis, diagnosing and treating diabetes, obseity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-
-obesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob-gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO 563; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-JUL-2002; 2002US-0398785P.
12-JUN-2003; 2003US-0478206P.
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                            Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                    Human cancer-associated protein HP13-011.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             29-JUL-2003; 2003WO-US023684
lymphoma;
                                                                                                                                                                         18-NOV-2004
                                                                                                                                                                                                                                                                                                          ABO84455 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (HMGE-) HMGENE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2004-143846/14.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 KLLAFGFAFL 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 49; DB
100.0%; Pred. No. 1.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ashar H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sayed AMD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8; Length 1304;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
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8X88X8X8X8X

Homo sapiens

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The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-associated proteins. Also included are an expression vector comprising the above recombinant nucleic acid cited above, a host cell comprising the above a cancer-associated (CA) nucleic acid comprising at least no contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least no pen reading frame of a CA sequence selected from any of the 25 complement), an isolated antibody, or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above compositional antibody, a pharmaceutical composition comprising the above contibudy and a pharmaceutical excipient, a kit for detecting cancer continuitional, a method for inhibiting growth of cancer cells in an conditional, a method for inhibiting growth of cancer cells in an conditional, a method for delivering a therapeutic agent to cancer cells in an individual, an electronic library comprising the above polypeptide or anticancer activity or for a bioactive agent capable of modulating concer associated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and
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                                                                                                             Query Match
Best Local :
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14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-004417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                              diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulat cancer. The present sequence is a human CAP protein sequence. Note: I sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WI
                                                                                                                                                                                                                             specification, at ftp.winc in
                                                                                                                                                                                  Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            claim 18; seqid 147; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             17-FEB-2004; 2004WO-US004730
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (SAGR-) SAGRES DISCOVERY INC
                                                                                                                                                                                                                    ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DW, Morris DW,
  6
                                                                                                                Similarity
                                             KLLAFGFAFL 10
KLLAFGFAFL 15
                                                                                             Conservative
                                                                                                                                                                                  A
                                                                                                                100.0%;
                                                                                                                100.0%; Score 49; DB 8; Length 1304; 100.0%; Pred. No. 1.8;
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                                                                                        0;
                                                                                             Mismatches
                                                                                                             1.8;
                                                                                          0
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                                                                                        Gaps
                                                                                                                                                                                                                                                     WIPO
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RESULT 29 ADQ39380

Query Match Best Local S Matches 10

Similarity

100.0%;

Score 49; DB 8 Pred. No. 1.8; 0; Mismatches

8; Length 1304;

10;

Conservative

0

<u>,</u>

٥.

Gaps

0

1 KLLAFGFAFL

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acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 10; SEQ ID NO 1043; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-533949/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human myocardial infarction-associated gene derived protein, SEQ ID 1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            15-JUL-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADQ39380 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Iakoubova
                                                                                                                                                                                                                                                                                                                                                                                               an antibody
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RESULT 30 ADQ39375 ID ADQ39

ADQ39375 standard; protein; 1306 AA.

18-NOV-2004 ADQ39375;

(first entry)

cardiant; gene therapy; human.

Myocardial infarction; detection; single nucleotide polymorphism; SNP; Human myocardial infarction-associated gene derived protein, SEQ ID 1038 밁

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KLLAFGFAFL 15

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Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
Sequence 1306 AA;
                                                                                                                                                                                                                                                               20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                   Claim 10;
                                                                                                                                                                                                                       N-PSDB; ADQ38547.
                                                                                                                                                                                                                             WPI; 2004-533949/51.
                                                                                                                                                                                                                                        Cargill M,
                                                                                                                                                                                                                                                                                             22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                          15-JUL-2004
                                                                                                                                                                                                                                                                                                                     WO2004058052-A2
                                                                                                                                                                                                                                                    (APPL-) APPLERA CORP.
                                                                                                                                                                                  SEQ ID NO 1038; 145pp; English.
                                                                                                                                                                                                                                        Devlin JJ,
                                                                                                                                                                                                                                        Iakoubova 0;
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8 contiguous mucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specificatly binds to the polypeptide or its antigen-binding fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the nucleic acid molecule; a method of detecting an SNP in a nucleic acid, comprising the nucleic acid molecule; a method of detecting an SNP in a method of detecting an SNP in a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing infarction and for preparing a composition for treating or preventing myocardial infarction. This The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least further comprises: an isolated nucleic acid molecule comprising at least sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: The sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website. an antibody This

Query Match

100.0%; Score 49; DB 8; Length 1306;

> Matches Best Local Similarity 100.0%; Pred. No. 1.8; Matches 10; Conservative 0; Mismatches 10; <u>,</u> Indels

0

Gaps

0

밁 Ś 1 KLLAFGFAFL 10 KLLAFGFAFL 17

07:35:37

Search completed: May 3, 2005, Job time: 44.973 secs

Database :	Post-processing: Minimum Match Maximum Match Listing first	Minimum DB seq l Maximum DB seq l	Total number of	Searched:	Scoring table:	Title: Perfect score: Sequence:	Run on:	OM protein - pro	
PIR 79:* 1: pir1:* 2: pir2:* 3: pir3:* 4: pir4:*	Minimum Match 0% Maximum Match 100% Listing first 45 summaries	Minimum DB seq length: 0 Maximum DB seq length: 2000000000	Total number of hits satisfying chosen parameters: 283416	283416 segs, 96216763 residues	BLOSUM62 Gapop 10.0 , Gapext 0.5	US-10-003-983C-1 44 1 FLYDVIAST 9	May 3, 2005, 05:49:25; Search time 6.68919 Seconds (without alignments) 129.455 Million cell updates/sec	OM protein - protein search, using sw model	GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
30	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
68.2	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5	70.5
. 91	865	784	770	629	577	547	510	501	495	490	374	247	193	193	161
N	N	N	N	N	N	N	N	N	_	N	N	N	N	N	N
T17867	T30998	T22939	T22944	T05089	S64613	T06758	T22835	G85097	S46284	B82971	S28285	D69437	E82031	D81009	A69732
hypothetical prote	probable membrane	probable galactose	hypothetical prote	hypothetical prote	calcium-dependent	cardiolipin syntha	hypothetical prote	hypothetical prote	probable integral	conserved hypothet	PBSX prophage ORF				

ALIGNMENTS

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A,Cross-references: UNIPROT: Q9PEM5; GB:AE003938; GB:AE003849; NID: g9105935; PIDN:AAF8381 A;Experimental source: strain 9a5c R;Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; A Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H. as-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Perreira, A.J.S. submitted to GenBank, June 2000

A;Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohm J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigu chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marino, C.L.; Marques, M.V.; Martins, B.A.; Authors: Martins, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.; A;Authors: Martins, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.;
                                                                                                                                                                                                                                                                                                                                                                                          C;Species: Xylella fastidiosa C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004 C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 09-Jul-2004 C;Accession: B82735 R;anonymous, The Xylella fastidiosa Consortium of the Organization for Nucl. Nature 406, 151-157, 2000 Nature 406, 151-157, 2000 A;Title: The genome sequence of the plant pathogen Xylella fastidiosa. A;Reference number: A82515; MUID:20365717; PMID:10910347 A;Note: for a complete list of authors see reference number A59328 below
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N;Alternate names: CD45 homolog
C;Species: Heterodontus francisci (horn shark)
C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000
C;Accession: T43148
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoprotein; phosphoprotein; phosphoprotein; phosphoprotein; phosphoprotein; phosphopse; F;594-1235/Domain: leukocyte common antigen cytosolic domain homology c;F;6575-899/Domain: protein-tyrosine-phosphatase homology c;PTP> F;851/Active site: Cys (phosphocysteine intermediate) #status predicted F;857/Binding site: substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Residues: 1-1200 <OKU>
A;Residues: 1-1200 <OKU>
A;Cross-references: UNIPROT:Q91054; EMBL:U34750; NID:g1304393; PID:g1335805;
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Okumura, M.; Matthews, R.J.; Robb, submitted to the EMBL Data Library, A;Reference number: Z22317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            밁
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A; Cross-references: GDB: 119768;
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C;Genetics:
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C; Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homo
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A;Status: prelimina
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  argininosuccinate lyase XF1003 (imported] - Xylella fastidiosa (strain 9a5c)
C;Species: Xylella fastidiosa
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9; Conserv
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8; Conser
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Pred. No.
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August 1995
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                                                                                     A; Title: Cloned murine
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F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D. Rodriques, V.; Rosa, A.J. de M.; de Rosa Jr., V.E.; de Sa, R.G.; Santelli, R.V.; Sawass A;Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silvai, M.J.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; A;Reference number: A59328
                                                                                                                            A;Gene: XF1003
C;Superfamily: argininosuccinate
                                                                                                                                                                                   A; Contents: annotation
                                                                 Matches
                                                                                                                                                                     Genetics:
                                                                                                 Query Match
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8
                                                              l Similarity
.7; Conserv
                       FLYDVIAST
                                                                 Conservative
46
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77.8%;
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Pred.
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No.
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                                                                 1;
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C;Species: Mis musculus (house mouse)
C;Date: 10-Sep-1999 #text change 09-Jul-2004
C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text change 09-Jul-2004
C;Accession: A28334; A29381; A61180; A60933; A33522; A29075; I54450; A28335;
R;Thomas, M.L.; Reymolds, P.J.; Chain, A.; Ben-Neriah, Y.; Trowbridge, I.S.
Proc. Natl. Acad. Sci. U.S.A. 84, 5360-5363, 1987
A;Title: B-cell variant of mouse T200 (Ly-5): evidence for alternative mRNA 6
A;Reference number: A28334; MUID:87260986; PMID:2955416
A;Accession: A28334 protein-tyrosine-phosphatase (BC 3.1.3.48) Ly-5 precursor (B-cell variant) - N;Alternate names: 200K leukocyte common antigen; B220; CD45; Ly-5 (B-cell sp.),Contains: protein-tyrosine-phosphatase (T-cell variant) alternative mRNA splicing specific);

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A; Molecule type: mRNA A; Residues: 1-1291 < THO> A; Cross-references: UNIPROT: P06800; UNIPROT: Q61814; UNIPROT: Q61815; UNIPROT: Q61813; A; Cross-references: UNIPROT: P06800; UNIPROT: Q61814; UNIPROT: Q61815; UNIPROT: Q61813; R; Saga, Y:; Tung, J.S.; Shen, F.W.; Boyse, E.A. Proc. Natl. Acad. Sci. U.S.A. 83, 6940-6944, 1986 A; Title: Sequences of Ly-5 cDNA: isoform-related diversity of Ly-5 mRNA. A; Reference number: A29381; MUID: 86313686; PMID: 2944116 A; Accession: A29381 GB

A; Molecule type: mRNA A; Residues: 1-30,170-517, 'NTT', 521-527, 'G', 529-555, 'S', 557-587, 'S', 589-905, 'Q', 907-930, A; Cross-references: GB:M14342; NID:g198914; PIDN:AAA39458.1; PID:g198915 A; Yi, T.; Cleveland, J.L.; Ihle, J.N. R; Yi, T.; Cleveland, J.L.; Ihle, J.N. Blood 78, 2222-2228, 1991

A; Title: Identification of r A; Reference number: A61180; A; Accession: A61180 of novel protein tyrosine phosphatases 180; MUID:92032882; PMID:1932742 õ hematopoietic

cells

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A;Status: not compared with conceptual translation A;Molecule type: mRNA

730-838 <YIA>

I.F.C

R;Gonez, L.J.; Walker, I.D.; Sandrin, M.S.; McKenzie, I.F.C Immunogenetics 25, 263-266, 1987
A;Title: High sequence conservation between rat (T200) and A;Reference number: A60933; MUID:87192931; PMID:3570377 mouse (Ly-5) leukocyte

common

A;Accession: A60933

A;Molecule type: protein
A;Molecule type: protein
A;Residues: 'R',289-298;329,'V',331-336,'Y';'R',364-370,'X',372-375;595-608;638-649;669A;Residues: N.A.; Meyer, C.M.; Pingel, J.T.; Thomas, M.L.
J. Biol. Chem. 264, 6220-6229, 1989
J. Biol. Chem. 264, 6220-6229, 1989
J. Title: Sequence conservation in potential regulatory regions of the mouse and human le
A;Reference number: A33522; MUID:89197920; PMID:2522930
A;Accession: A33522

A; Molecule type: DNA A; Residues: 1-22 < JOH>

A;Cross-references: GB:M22456; NID:g198755; R;Raschke, W.C. Natl. Acad. Sci. U.S.A. le: Cloned murine T200 ((Ly-5) cDNA reveals reals multiple PMID:2948186 PIDN: AAB46374.1; transcripts PID:g554185; within GB:J04640; and GB

A; Reference number: A29075; A; Accession: A29075 A; Molecule type: mRNA

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structural protein - Marburg virus
C;Species: Marburg virus
C;Date: 06-Jan-1995 #equence_revision 06-Jan-1995 #text_change
C;Accession: S33316; S32775
R;Bukreyev, A.A.; Volchkov, V.E.; Blinov, V.M.; Netesov, S.V.
FEBS Lett. 323, 183-187, 1993
A;Title: The GP-protein of Marburg virus contains the region sin
A;Reference number: S33316; MUID:93265932; PMID:8495737
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S33316
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Mol. Cell. Biol. 8, 4889-4895, 1988
A;Title: Organization of the Ly-5 Gene.
A;Reference number: I57644; MUID:89096862; PMID:3211131
A;Accession: I57644
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Mol. Call
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A;Accession: S33316
A;Status: prelimina:
A;Molecule type: DN
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C;Superfamily
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A; Residues: 32-73 < RES>
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                                             Status: preliminary
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;24-30,170-1291/Product: protein-tyrosine-phosphatase (T-cell variant) #status predict;
;565-566/Domain: transmembrane #status predicted <TMM>
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;Residues: 'MT',1-22 <RE2>
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87.5%;
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2, 7360-7363,
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L; Mismatches
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14;
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1985
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RESULT A54080

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two-component hybrid sensor and regulator all2875 [imported] - C;Species: Nostoc sp. PCC 7120 A;Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp. C;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change C;Accession: AD2165
                                                                                                                                                                                                                       DNA Res. 8, 205-213, 2001
A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing Cyanobacterium
A:Reference number: AB1807; MUID:21595285; PMID:11759840
                                                                                                                                                                                                                                                                     R;Kaneko, T.; Nakamura, Y.; Wolk, C.P.; Kuritz, T.; Sasamoto, S.; Watanabe, A.; Iriguc
Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, M.; Yamada, M.; Yasuda, M.; Tabata,
DNA Res. 8, 205-213, 2001
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R;Will, C.; Muhlberger, E.; Linder, J. Virol. 67, 1203-1217, 1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         type I transmembrane glycoprotein - Marburg virus
C;Species: Marburg virus
C;Date: 21-Sep-1993 #sequence_revision 18-Nov-1994 #text_change 09-Jul-2004
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A;Cross-references: UNIPRO
C;Keywords: transmembrane
                                                                                                    A;Gene: all2875
                                                                                                                                    A;Cross-references: UNIPROT:Q8YT51; GB:BA000019; PIDN:BAB74574.1; A;Experimental source: strain PCC 7120
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                                                  Score 36;
Pred. No.
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Pred. No.
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Pred.
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                                    Mismatches
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#text_change
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09-Jul-2004
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protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type delta precursor - chicken C;Species: Gallus gallus (chicken) C;Date: 02-Aug-1994 #sequence_revision 02-Aug-1994 #*---- C;Accession: A540A0. TEACO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Species: Rattus norvegicus (Norway rat).
C;Date: 04-Dec-1986 #sequence revision 05-May-2000 #text change 09-Jul-2004 C;Accession: A29450; B29450; C29450; D29450; A60241; A02247; I54569; A45854 R;Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, A.F. EMBO J. 6, 1259-1264, 1987
                                                                                                                                                                                                       A;Molecule type: mRNA
A;Residues: 28-218 <BAR4>
A;Residues: 28-218 <BAR4>
A;Cross-references: GB:M25823; GB:M24611; NID:g205159; PIDN:AAA41521.1; PID:g205160;
A;Experimental source: splice form 4
A;Experimental source: n GenBank entry RATLCAIV, release 113.0, has the codon AGG for A;Note: the sequence in GenBank entry RATLCAIV, release 113.0, has the codon AGG for R;Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, A.F.
R;Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, A.F.
Adv. Exp. Med. Biol. 237, 3-7, 1988
A;Title: The leukocyte-common antigen (L-CA) family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Molecule type: mRNA
A;Residues: 19-30,122-218 <BAR2>
A;Residues: 19-30,122-218 <BB.W25821; GB.W24611; NID:g205155; PIDN:AAA41519.1; PID:g205156;
A;Experimental source: splice form 2
A;Accession: C29450
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A;Residues: 1-1237 <FAN>
A;Cross-references: UNIPROT:091976; EMBL:Z21960; NID:g510510; PIDN:CAA79972.1; PID:g5105
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol
C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphatas
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            C;Accession: A54080; I50592
R;Fang, K.S.; Barker, K.; Sudol, M.;
J. Biol. Chem. 269, 14056-14063, 1994
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N;Alternate names: CD45; L-CA; Ly-5; T200
N;Contains: leukocyte common antigen precursor, splice form
A; Residues: R; Thomas, M
                                                                    A; Molecule type:
                                                                                                                                         A; Reference number: A60241; MUID:89319817; A; Accession: A60241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Molecule type: mRNA
A;Residues: 20-30,73-121,163-218 <BAR3>
A;Cross-references: GB:M5822; GB:M24611; NID:g205157; PIDN:AAA41520.1; PID:g205158;
A;Experimental source: splice form 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Accession: A29450
A;Molecule type: mRNA
A;Residues: 20-30,163-218 <BAR1>
A;Cross-references: UNIPROT:Q6422
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Title: Lymphocyte specific heterogeneity in the rat leucocyte A; Reference number: A91067; MUID:87275817; PMID:2440674
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                                                                                                     Status: not compared with conceptual translation
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1153
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       À.N.;
   Gagnon,
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Pred. No.
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   J.; Williams,
                                                                                                                                                                                 PMID:2978200
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59;
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   Query Match
Best Local Similarity
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C;Comment: This glycoprotein is found on lymphoid and myeloid cell surfaces.
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol (;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol (;Keywords: alternative splicing; duplication; glycoprotein; phosphoprotein; phosphoric | F;1-23/Domain: signal sequence #status predicted <SIG> F;24-1273/Product: leukocyte common antigen precursor; splice form 4 #status predicted <F;24-566/Domain: extracellular #status predicted <EXTY> F;24-566/Domain: extracellular #status predicted <EXTY> F;24-30,163-1273/Product: leukocyte common antigen, splice form 1 #status predicted <MAT F;24-30,73-121,163-218/Product: leukocyte common antigen, splice form 3 #status predicted F;347-568/Domain: transmembrane #status predicted <Fi>CF 120/Domain: transmembrane #status pre
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A;Residues: 187-189; K',191-192,'K',208-1273 <THO>
A;Residues: 187-189; K',191-192,'K',208-1273 <THO>
A;Cross-references: GB:M10072; GB:M81859; NID:g205140; PIDN:AAA41513.1;
A;Note: the translation in GenBank entry RATLCA1, release 113.0, begins A;Note: parts of this sequence were determined by protein sequencing R;McCall, M.N.; Shotton, D.M.; Barclay, A.N.
Immunology 76, 310-317, 1992
A;Title: Expression of soluble isoforms of rat CD45. Analysis by electro A;Reference number: 154569; MUID:92340120; PMID:1378817
A;Accession: I54569
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T30423
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                                                                                                                                                                                          R;Kuzio, J.; Pearson, M.N.; Harwood, S.H.; Funk, C.J.; Evans, J.T.; Slavicek, J.M.; Virology 253, 17-34, 1999
A;Title: Sequence and analysis of the genome of a baculovirus pathogenic for Lymantz A;Reference number: 220836; MUID:99124785; PMID:9887315
A;Accession: T30423
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              C;Species: Lymantria dispar nuclear polyhedrosis virus, LdMNPV (C;Date: 29-Oct-1999 #text_chang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              hypothetical protein ORF75 - Lymantria dispar nuclear polyhedrosis virus N_1Alternate names: Ld-bro-g
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A;Cross-references: GB:M18347; GB:M18348; GB:M18349
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A; Residues: 1-30,163-180 < MCC>
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                                     A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-222 <KUZ>
A;Cross-references: UNIPROT:Q9YMQ2; EMBL:AF081810; PIDN:AAC70261.1
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Best Local S
Matches 6
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75.0%;
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Pred. No.
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61;
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77.3%; 66.7%;

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A;Molecule type: DNA
A;Residues: 1-170 <PAR>
A;Residues: 1-170 <PAR>
A;Cross-references: UNIPROT:Q9JVB1;
A;Experimental source: serogroup A,
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                                                                                                                                                                                                                                                         A;Status: preliminary
                                                                                                                                                                                                                                                                       A;Title: Complete DNA sequence of a serogroup A strain of Neisseria menigitidis Z2491. A;Reference number: A81775; MUID:20222556; PMID:10761919 A;Accession: B81938
                                                                                                                                                                                                                                                                                                                         R;Parkhill, J.; Achtman, M.; James, ; Holroyd, S.; Jagels, K.; Leather, Nature 404, 502-506, 2000
                                                                                                                                                                                                                                                                                                                                                                                         probable membrane protein NMA0915 [imported] - Neisseria meningitidis (strain C;Species: Neisseria meningitidis C;Species: 05-May-2000 #sequence_revision 05-May-2000 #text_change 09-Jul-2004
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C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change
C;Accession: T20549; T23677
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 12
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A; Residues: 1-652 <WI2>
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A;Experimental source: clone F07C6
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                                                                                                                                   Superfamily: Neisseria meningitidis probable membrane
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    65/2; 98/2; 126/3; 152/2; 203/2; 280/2; 333/1;
                                                                   Conservative
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 161
                                                                                75.0%;
66.7%;
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75.0%;
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Pred. No. 48;
                                                                                 Score 33; DB
Pred. No. 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 from
                                                                                                                                                                                                                                                                                                                                         K.D.; Bentl
S.; Moule,
                                                                                                                                                                                     GB:AL162754; GB:AL157959; NID:g7379424; strain Z2491
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               October 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              EMBL: Z69659; PIDN: CAA93487.1; GSPDB: GN00022; CESP: FC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   February 1996
                                                                   Mismatches
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                                                                                                                                                                                                                                                                                                                                       Mungall, K.; Quail, M.A.;
                                                                                                                                                                                                                                                                                                                                                         S.D.; Churcher, C.; Klee,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2;
                                                                                                 Length 170;
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                                                                   Indels
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                C; Keywords: transmembrane prote: F;177-193/Domain: transmembrane
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Gene:
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probable membrane protein YDL111c - yeast (Saccharomyces cerevisiae)
W;Alternate names: hypothetical protein D2315
C;Species: Saccharomyces cerevisiae
C;Date: 12-Uul-1996 #sequence revision 12-Uul-1996 #text_change 09-0;Accession: S67653; S67407; $72095
C;Accession: S67653; S67407; $72095
C;Accession: S67653; Remacha, M.; Soler-Mira, A.; Jimenez, A.; Garcia C;Accession: S67653; S67407; $72095
                                                  A;Cross-references: MIPS:YDL111c; SGD:S0002269
A;Map position: 4L
C;Function:
                                                                                                                                                                                                                           A;Status: nucleic acid sequence not shown; translation not A;Molecule type: DNA A;Residues: 1-265 <SAI>
                                                                                                                                                                                                                                                                                         Yeast 12, 1077-1084, 1996
A;Title: The sequence of a 20.3 kb DNA fragment from the left arm of Saccharomyces cereval, R;Reference number: S72094; MUID:97051597; PMID:8896274
A;Accession: S72095
                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: EMBL:X95644; NID:g1199535; PID:e223184; R;Saiz, J.E.; Buitrago, M.J.; Garcia, R.; Revuelta, J.L.; de Yeast 12, 1077-1084, 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: UNIPROT:Q12277; EMBL:Z74159; NID:g1431159; A;Experimental source: strain S288C R;Boskovic, J.; Salz, J.E.; Soler-Mira, A.; Garcia-Cantalejo, Csubmitted to the EMBL Data Library, February 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Molecule type: DNA
A; Residues: 1-265 < BOS>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Reference number: S67406
A; Accession: S67407
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-265 <BAL>
                          A; Description: required for processing of the 5.8S rRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Fulton, R.; Wohldmann, P.; Bauer, C.; Gibson, A. submitted to the EMBL Data Library, July 1998
                                                                                                                                A;Gene: SGD:RRP42
                                                                                                                                                                              A; Note: the nucleotide sequence
                                                                                                                                                                                                           A; Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Accession: S67653
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A, Reference number: S67629
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              submitted to the Protein Sequence Database,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Cross-references: UNIPROT:076677; EMBL:AF078785; PIDN:AAC27089.1; GSPDB:GN00023; CESPA;Experimental source: strain Bristol N2; clone C04E12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-221 < FUL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Status: preliminary; translated from GB/EMBL/DDB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Accession: T33414
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Reference number:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Description: The sequence of C. elegans cosmid C04E12. A;Reference number: Z21341
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               hypothetical protein C04E12.3 - Caenorhabditis elegans C;Species: Caenorhabditis elegans
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CESP: C04E12.3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    76 FTYDVISNT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25/1; 44/1; 128/3; 167/3; 191/3
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6; Conser
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                                                                                                                                                                           EMBL:X95644; NID:g1199535; PID:e223184; PID:g1199537 ide sequence was submitted to the EMBL Data Library,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    84
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protein
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Pred.
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el Rey, F.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PID:e253227;
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#status predicted <TMM>

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C;Accession: E69831
C;Accession: C;Accession: C;Accession: C,V;Carter,N.M.;ChcA;Ciperon,S.;Brouillet,S.;Brouillet,S.;Capuano,V.;Carter,N.M.;ChcA;Ciperon,S.;Lariancy,C.;ChcA;Acuthors: Foulger,D.;Fritz,C.;Fujita,M.;Fujita,Y.;Fuma,S.;Galizzi,A.;Galler iech,J.;Harwood,C.R.;Henaut,A.;Hilbert,H.;Holsappel,S.;Hosono,S.;Hullo,M.F.;Koetter,P.;Koningstein,G.;Krogh,S.;Kumano,M.;Kurita,K.;Lapidus,A.;Cardinois,A;Authors: Lauber,J.;Lazarevic,V.;Lee,S.M.;Levine,A.;Liu,H.;Masuda,S.;Maueel y,M.;Ogawa,K.;Ogiwara,A.;Oudega,B.;Park,S.H.;Parro,V.;Pohl,T.M.;Portetelle Rieger,M.;Rivolta,C.;Rocha,B.;Roche,B.;Rose,M.;Sadaie,Y.;Sato,T.;Scanlon,A;Authors: Schleich,S.;Schroeter,R.;Scoffone,F.;Sekiguchi,J.;Sekowska,A.;Seror akeuchi,M.;Tamakoshi,A.;Tanaka,T.;Terpstra,P.;Tognoni,A.;Tosato,V.;Uchiyama,T.;Winters,P.;Wipat,A.;Yamamoto,H.;Yamanoto,K.;Yasumoto,K.;Yata,K.;Yoshida,KA;Athors: Yoshikawa,H.F.;Zumstein,B.;Yoshikawa,H.;Danchin,A.
A;Authors: Yoshikawa,H.F.;Zumstein,B.;Yoshikawa,H.;Danchin,A.
A;Reference number: A69580;MUID:98044033;PMID:9384377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 15
E69831
Search completed: May 3, 2005, 06:14:16 Job time: 27.6892 secs
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                                                                                                                                                                                                                                                                                                                                                                                                         A;Gene: yhfP
C;Superfamily: alcohol dehydrogenase; long-chain alcohol dehydrogenase homology
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:007615; GB:Z99109; GB:AL009126; NID:92633260; PIDN:CAB12872
A;Experimental source: strain 168
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      conserved hypothetical protein yhfP - Bacillus subtilis
C;Species: Bacillus subtilis
C;Stec: 05-Dec-1997 #sequence_revision 05-Dec-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            В
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Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genetics:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Status: preliminary; nucleic acid sequence not shown; translation not shown Molecule type: DNA
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Best Local Similarity 66.7%;
Matches 6; Conservative
                                                                                                                                3 YDVIAST 9
|||:|||
176 YDVVAST 182
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                                                                                                                                                                                                                                                                 n 75.0%; Score 33; DB 2; Length 330; Similarity 85.7%; Pred. No. 37; 6; Conservative 1; Mismatches 0; Indels
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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A Geneseq_16Dec04:*
1: geneseqp1980s:*
2: geneseqp1990s:*
3: geneseqp2001s:*
4: geneseqp2001s:*
5: geneseqp2003s:*
6: geneseqp2003s:*
7: geneseqp2003bs:*
8: geneseqp2004s:*
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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(without alignments)
79.110 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	æ	7	6	ហ	4	ىيا	2		Result No.
44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	Score
100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	Query Match
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ABO84455	ADM67209	ADP65158	ADL16230	ABU05244	ABU05241	ABU05243	ADQ39379	ADQ39376	ADP12966	ADM67187	ADQ39378	ADR39747	ABU05242	AAM41048	ADQ18845	ADL16232	ABU05245	ABU05240	ABU05239	ABU05246	ADQ39377	ABO84454	ADD22989	ABG31971	ID
Abo84455 Human can	Adm67209 Human adi	Adp65158 Human pro	Human	Abu05244 Human exp	Abu05241 Human exp	Abu05243 Human exp	Human	Adq39376 Human myo	Adp12966 Protein e	Human	Adq39378 Human myo	Human	Abu05242 Human exp	Aam41048 Human pol	Human	Adl16232 Human pro	Abu05245 Human exp	Abu05240 Human exp	Abu05239 Human exp	Human	Adq39377 Human myo	Abo84454 Human can	Add22989 Human pro	man c	Description

## \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	X	PI X X R X R X R I	X X X X X X X X X X X X X X X X X X X	RES ABG AC XX	
The inven (HLA)-bin provided peptides in vitro cell, where the to the cl	WPI; 200 Novel pe polypept killing	30-NOV- 30-NOV- (IMCO-)	man man; tige tige tige tige tige tony emat	RESULT 1 ABG31971 ID ABG31971 XX XX AC ABG31971; XX	22222333344444444444444444444444444444
invention)-binding)/ided that cides are u itro which , where it loaded wit e the CTL he class I		-2 -2 H	CD45 HLA- CD45; hu en-present enn; allore stem of forming opoietic; sapiens.	.971 st	44666666666666666666666666666666666666
discleptithe peptithe	9413/64 e compr useful erous c	; 2000 ; 2000 ERIAL Amrol	HLA-bin human senting logenic ttem cel ting uni tic; ma	andard;	1000 1000 86.66 86.6
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a pe hur e ir processiont contide, tige, t	programa e.g.	456; 456; INI	peptide cocyte a APC; APC; ell rec mnsplant mnulocyt nnt.	de;	8884488887868466466
sn. tide compr n CD45 pol not the ir not the ir cring activ cting the mpatibilit to activat presentir hat is pre	g leukocyte antigen binding pept producing activated cytotoxic T e.g. leukemia.	566. 566. INNOVATIONS LTD.	ding peptide, huCD45/1218. ding peptide, huCD45/1218. leukocyte antigen; HLA; cytotoxic T lymphocyte cell; APC; major histocompatibility complex; T cell receptor; TCR; cancer; tumour; transplantation; CFU-CM; leukaemia; t-granulocyte macrophage; immunotherapeutic; lignant.	ALIGNMENTS 9 AA.	ADQ39380 ADQ39375 ADJ99685 AAB59393 AAG78291 ADN26688 ADN26888 ADN26884 ADN67208 ADD84453 ADM67208 ADM67208 ADM67208 ABM67224 ADM67247 ABW77127 AAY77127 AAY77127 AAY77075 AAY77075 AAY77075 AAY77077 AAY77077 AAY77077 AAY77077 AAY77077 AAY77077 AAY77077 AAY77077 AAY77077 AAY77077 AAY77077
rising the human leukocyte antigen ypeptide, its portion or variant, tract human CD45 polypeptide. The rated cytotoxic T lymphocyte (CTL) CTL with an antigen-presenting y complex (MHC) class I molecules e, in an antigen specific manner, g cell are allogenic with respect senting peptides of CD45. The	eptide of human CD45 c T lymphocytes, for		T lymphocyte; CTL; ty complex; MHC; ia; erapeutic;		Adg39380 Human myo Adg39375 Human myo Adg39375 Human leu Aab59393 Murine pr Aag78291 Mouse CD4 Adn26828 Bacterial Adn26828 Bacterial Adn26828 Bacterial Adn26828 Bacterial Adn26828 Bacterial Ads28516 Bacterial Adb67208 Mouse can Adl16234 Mouse pro Adm67208 Murine ad Abj18473 Chimeric Aay77123 Marburg v Abr42248 Marburg v Abr42247 Marburg v Aay77127 Marburg v Aay77075 Marburg v Aay77075 Marburg v Aag97077 Marburg v Abj18474 Chimeric

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RESULT 2
ADD22989
ID ADD2
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XX U
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Best Local (
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16-AUG-1993;
04-DEC-1996;
22-JAN-1999;
03-MAY-2001;
                                                                                                                                                                              New isolated RNA encoding protein tyrosine phosphatase designated as PTPH1 useful for treating malignancies such as breast cancer, leukem
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADD22989 standard; protein;
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                                                                                                                          Disclosure;
                                                                                                                                                                                                                                                                          WPI; 2003-810871/76
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               14-MAR-1990;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            breast cancer; leukaemia; CD45-D2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human protein tyrosine phosphatase, CD45-D2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antigen-presenting cell contains an expression vector including the
                                                                                                                                                                                                                                                                                                                                                                                        (COLD-) COLD
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9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      enzyme;
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                                                                                                                       Fig
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                                                                                                                                                                                                                                                                                                                                                                                        SPRING HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                  2001US-00848294.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        90US-00494036.
91US-00663579.
93US-00107420.
96US-00759536.
99US-00235251.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein tyrosine phosphatase; PTPH1; cytostatic;
retroviral vector; phosphotyrosine; pp60(V-src);
                                                                                                                          4B;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ø
                                                                                                                       English.
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Pred.
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ches 0;
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                                                                                                                                                                                 leukemia
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The invention relates to an isolated RNA encoding a protein phosphatase designated as PTPH1 appearing as ADD22982. Also retroviral vector comprising the RNA. The RNA is useful for

ityrosine included treating

or 18

recombinant nucleic acid

ç

expression

for

The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polymucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above

claim 18; seqid 145; 310pp; English.

lymphoma and

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RESULT 3
ABO84454
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC preventing a condition in which abnormally high levels of phosphotyrosine occur in a mammalian cell (which involves introducing into the mammalian cell and agent which comprises DNA or RNA encoding all or a portion of a CPTPH1, under conditions sufficient to express PTPH1 where the polypeptide can catalyse dephosphorylation of tyrosyl residues that are phosphorylated through action of a protein tyrosine kinase. The RNA is called useful for reversing a malignant phenotype of a mammalian cell which cis associated with tyrosyl phosphorylation catalysed by a protein cyrosine kinase. The DNA or RNA is delivered via a recombinant retrovirus cor a recombinant vaccinia virus. At least one tyrosyl residue that is composphorylated by the protein tyrosine phosphatase polypeptide can be aberrantly phosphorylated by pp60(V-src). The **RNA is useful for treating cor preventing malignancies such as breast cancer and leukaemia. The present sequence is a PTP similar to PTPH1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                                                                                                                                                        17-FEB-2004; 2004WO-US004730.
                                                                                                                                                                                                                                                                                                                                                                                                                               WO2004074320-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; cancer-associated protein; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human cancer-associated protein HP13-011.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABO84454;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ABO84454 standard; protein; 764 AA
                                                                                                                    New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                      Morris
                                                                                                                                                                                                                                                                           15-SEP-2003;
15-DEC-2003;
                                                                                                                                                                                                                                                                                                                                             14-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                    02-SEP-2004.
                                                                                                                                                                             N-PSDB; ABD32625.
                                                                                                                                                                                                                                                                                                     15-APR-2003;
13-JUN-2003;
                                                                                                                                                                                                                                                                                                                                  14-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lymphoma;
                                                                                                                                                                                                                                                 (SAGR-)
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                                                                                                                                                                                            2004-652914/63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               253
                                                                                                                                                                                                                      DW,
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                                                                                                                                                                                                                                                 SAGRES DISCOVERY INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            273
                                                                                                                                                                                                                                                                          ; 2003US-00367094.
; 2003US-00388838.
; 2003US-00417375.
; 2003US-00461862.
; 2003US-00663431.
; 2003US-00737318.
                                                                                                                                                                                                                      Morris DW,
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Pred. No. 0.37;
; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0
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the individual's nucleic acids

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RESULT 4
ADQ39377
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CC a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above-cc mentioned nucleotide sequences, an isolated polypeptide (encoded within CC an open reading frame of a CA sequence selected from any of the 95 cc polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above cc monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for disgnosing cancer cells (condition) a method for inhibiting growth of cancer cells in an cl individual, a method for inhibiting growth of cancer cells in an cell individual, an electronic library comprising the above polypeptide (or their fragments) methods of screening composition and treating the activity of a CA protein (CAP), methods for detecting cancer cells in an associated with expression of a polypeptide in a test cell sample, a sesociated with expression of a polypeptide of a test cell sample, a cl protein gand treating cancers, especially lymphoma and cl evaluation and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and cl evaluation, but was obtained in electronic format directly from WIPO cat for hymphomalished not segmences.
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Matches 9; Conserv
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                                                                                                                                                                           20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-045313SP.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
                                                                                                                                                                                                                                                                                                                                                                                                                         Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADQ39377 standard; protein; 960 AA
                                                       N-PSDB; ADQ38549.
                                                                    WPI; 2004-533949/51
                                                                                                                                            (APPL-)
                                                                                                                                                                                                                                                              22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                     15-JUL-2004
                                                                                                                                                                                                                                                                                                                                    WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                        cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human myocardial infarction-associated gene derived protein, SEQ ID 1040
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                                                                                                         Σ,
                                                                                                                                            APPLERA CORP
                                                                                                         Devlin JJ,
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                                                                                                         Iakoubova
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Pred. No. 1.2;
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 polymorphism
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RESULT 5
ABU05246
IID ABU05246
AC ABU0
XX ABU0
XX Huma
XX Huma
XX Frece
KW Frece
KW rece
KW ader
XX ader
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XX Home
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Best Loc
Matches
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28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid molecule comprises an isolated nucleotides is an SNP given in the specification or its complement and encoding any one of the amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MIC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
                                                                                                                                                                                                                                            28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABU05246 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
                                                                                                                                                                                                                                                                                                                10-OCT-2002.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 874 FLYDVIAST 882
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10; SEQ ID NO 1040; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 FLYDVIAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      l Similarity
9; Conserv
2001US-0279495P.

2001US-0292544P.

2001US-0310801P.

2001US-0326370P.

2001US-0336780P.

2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sarcoma; melanoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein; 1114 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      100.0%; Score 44; DB
100.0%; Pred. No. 1.5;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (EPT) #1912.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      8; Length 960,
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C transporter, cytoskeletal protein, receptor or transcription factor. The colypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 9
 28 -MAR-2001;
21 -MAY-2001;
08 -AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                    Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                   ABU05239 standard; protein; 1114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chicz RM,
                                                                                                            28-MAR-2002; 2002WO-US009671.
                                                                                                                                             10-OCT-2002
                                                                                                                                                                           WO200278524-A2
                                                                                                                                                                                                                                                                                                                                      Human expressed protein tag (EPT) #1905.
                                                                                                                                                                                                                                                                                                                                                                       29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ftp.wipo.int/pub/published
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1028 FLYDVIAST 1036
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9; Conserve
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID
             ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NO 1912; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
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                                                                                                                                                                                                                                         melanoma; lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Urban RG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            _pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                    phosphatase;
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S

1 FLYDVIAST

Similarity 9; Conserv

0;

0

Indels

0

Gaps

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Query Match
Best Local S
Matches 9
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                                                                                                            myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptides (e.g. cytoskeletal proteins, treating cancer, e.g. o
                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZYCO-) ZYCOS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2;
                                                                                1114
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID
100.0%; ilarity 100.0%; Conservative 0
                                                                                Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NO 1905; 134pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ą,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      kinases, phosphatases, proteases, transporters, receptors or transcription factors), useful for colon cancer, gastric cancer, sarcoma, lymphoma of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Urban RG
    Score 44; DB 6
Pred. No. 1.8;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English
                                        6;
                                          Length 1114;
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RESULT 7
ABU05240
ID ABUC
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        28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kina protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                    Human expressed protein tag (EPT) #1906.
                                                                                                                                                                                                                                                                                 ABU05240;
                                                                                                                                                                                                                                                                                                      ABU05240 standard; protein; 1143
                                                                            28-MAR-2002; 2002WO-US009671
                                                                                                                                             Homo
                                                                                                                                                                                                                                                            29-JAN-2003
                                                                                                  10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                            1028 FLYDVIAST 1036
2001US-0279495P.

2001US-029544P.

2001US-031081P.

2001US-0326370P.

2001US-0336780P.

2002US-0358985P.
                                                                                                                                                                                                                                                           (first entry)
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                                                                                                                                                                                                               EPT; kinase;
                                                                                                                                                                                                   nase; phosphatase;
protein;
                                                                                                                                                                             gastric
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RESULT 8
ABU05245
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fragment of a kinase, phosphatase, protease, which comprises a fragment of a kinase, phosphatase, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at fip.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 9
28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0295544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                            Translational profiling; expressed protein tag; EPT; kinase; phosphatasė; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                  WO200278524-A2
                                                                                                                                                   10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                 Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                     29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABU05245 standard; protein; 1143 AA
                                                                                                                  28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ZYCO-) ZYCOS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1057 FLYDVIAST 1065
                                                                                                                                                                                                                 sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FLYDVIAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer, e.g. colon cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 1906; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Tomlinson
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                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
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                                                                                                                                                                                                                                                                                                                                                 (EPT) #1911.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 44;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 6; Length 1143; 1.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
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(CEPT-)

COLD SPRING HARBOR LAB CEPTYR INC.

13-FEB-2002; 12-FEB-2003; 13-FEB-2003;

2003WO-EP001446 2002US-0356810P. 2003US-00366547.

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RESULT 9
ADL16232
ID ADL1
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                   cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADL16232;
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                                                                                                                                                                                                     21-AUG-2003.
                                                                                                                                                                                                                                                                                                                                            cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADL16232 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (ZYCO-) ZYCOS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1057
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 FLYDVIAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            FLYDVIAST
                                                                                                                                                                                                                                                                                                                                          abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 tyrosine phosphatase #27.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NO 1911; 134pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1065
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein; 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 44; DB 100.0%; Pred. No. 1.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ξ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Urban RG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>,</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               English.
                                                                                                                                                                                                                                                                                                                                                                                                             oxidation; dephosphorylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              6; Length 1143;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  binds to this
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
            Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 81; 238pp; English.
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                                                                                                                                                                                                                                                                                                                                                          soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human
                                                                                                                                                                                                                                                                                                                                                                                              Human soft tissue sarcoma-upregulated protein - SEQ ID 1664.
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                                                                                                                                                                                      26-NOV-2002; 2002US-0429739P.
                                                                                                                                                                                                                      26-NOV-2003; 2003WO-US038193
                                                                                                                                                                                                                                                          10-JUN-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADQ18845 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1057
                                                                                                                    'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2003-712572/67.
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                                                                                                                                                      PROTEIN DESIGN LABS INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
                                                                                                                Ginsburg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        autoimmune disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                    ₹.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein; 1143 AA
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Pred. No. 1.9;
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RESULT 11
AAM41048
ID AAM41048
ID AAM41
AC AAM41
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                      Tang
Wang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; nootropic; immunosuppressant; cytostatic; gene therapy; cance: peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human polypeptide SEQ ID NO 5979.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1143 AA;
                                                   N-PSDB; AAI60204.
                                                                              WPI; 2001-442253/47.
                                                                                                                                                                                                                                                                                                                14-SEP-2000;
19-OCT-2000;
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19-JUL-2000;
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25-APR-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WO200153312-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             22-OCT-2001 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel method for detecting soft tissue sarcoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example
                                                                                                                                                                                                                                                                                       29-NOV-2000;
                                                                                                                                                                                                                                    (HYSE-) HYSEQ INC
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                                                                                                                              P J Y
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9; Conserva
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•
                                                                                                                              Liu C,
Wang Z,
Goodrich
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                                                                                                                                                                                                                                                                                     2000US-00662191.
2000US-00693036.
2000US-00727344.
                                                                                                                                                                                                                                                                                                                                                                2000US-00598042.
2000US-00620312.
2000US-00653450.
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2000US-00552317.
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                                                                                                                                                      Asundi V,
Wehrman T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NO 1664;
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                                                                                                                                 Chen Xu C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 44; DB
Pred. No. 1.9;
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                                                                                                                                              c,
                                                                                                                                                         Ma Y,
Xue AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   8;
                                                                                                                                                         Qian XB,
Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1143;
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                                                                                                                                                         Ren F, V
Zhang J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                    Wang D;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer;
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                                                                                                                                                         Zhao QA;
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Novel nucleic acids and polypeptides, useful for treating disorders such

central nervous system injuries

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RESULT 12
ABU05242
ID ABU052
XX ABU052
XX ABU05
XX ABU05
XX ABU05
XX ITANS
CW Freege
KW Freege
K
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                           28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 immunosuppressant and cytostatic activity. The polymucleotides are useful in gene therapy. A composition containing a polypeptide or polymucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC;
                                                                                          New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                        treating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      29-JAN-2003
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                                                                                                                                                                                                                                                                                                         (ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Local Similarity res 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1063 FLYDVIAST 1071
                                                                                                                                                                                  2003-040607/03
                                                                                                                                                                                                                                              RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Н
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                                                                                                                                                                                                                                              Tomlinson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2002WO-US009671
                                                                                                                                                                                                                                                                                                         INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein tag (EPT) #1908.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                                              ጀ
                                                           cancer, gastric cancer, sarcoma, lymphoma or
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 44;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DB 4;
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ADR39747
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a purified polypeptide, which comprises a configuration of a kinase, phosphatase, protease, protease inhibitor. The protein of a kinase, phosphatase, protease, protease inhibitor. The comporter, cytoskeletal protein, receptor or transcription factor. The pulpeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MfC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, Iymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
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Best Local
                            WPI; 2004-635568/61.
N-PSDB; ADR39793.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            human; kinase and phosphatase protein; KPP; enzyme; cytostatic; antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy; stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                                                                                                                 Ramkumar J, Marquis
Becha SD, Lee SY, 1
Jackson AA, Yang J,
                                                                                                                                                                                                                                                                                              20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; SEQ ID NO 1908; 134pp; English
                                                                                                                                                                                                                                     (INCY-) INCYTE CORP
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                                                                                                                                                                                Marquis
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disorder; Hypothyroidism; Cushing's syndrome;
                                                                                                          Hafalia AJA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         9
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                                                                                                                                                Swarnakar A, Chawl
ia AJA, Richardson
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Pred. No. 1.9;
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                                                                                                                                                Chawla NK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          6;
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                                                                                                                                                Khare R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                Jiang
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                infection;
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RESULT 14
ADQ39378
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents the human kinase and phosphatase protein (KPP), designated KPP-20. The human KPP sequences from the present invention have cytostatic, antiarteriosclerotic, anticonvulsant, notropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antiinflammatory and thyromimetic activities, and can be used in gene therapy. The human KPP proteins and polymucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polymucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
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Best Local
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                                                                                                                                                                                                                            20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1192 AA;
                                                 Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human myocardial infarction-associated gene derived protein, SEQ ID 1041.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADQ39378 standard; protein; 1219
                               the individual's nucleic acids.
                                                                                                        N-PSDB; ADQ38550.
                                                                                                                                                          Cargill M,
                                                                                                                                                                                             (APPL-) APPLERA CORP.
                                                                                                                                                                                                                                                                                                                    22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                                                          WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                             cardiant; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Myocardial
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                                                                                                                         2004-533949/51.
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9; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          infarction; detection; single nucleotide polymorphism; SNP,
                                                                                                                                                          Devlin JJ,
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                                                                                                                                                            Iakoubova
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Pred. No.
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Claim 10; SEQ ID NO 1041; 145pp; English

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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1219 AA;
                N-PSDB; ADM66908
                                                                            Chada K,
                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human adipocyte specific PTPase receptor type C protein SeqID
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                                   WPI; 2004-143846/14
                                                                                                                                                          29-JUL-2002; 2002US-0398785P.
12-JUN-2003; 2003US-0478206P.
                                                                                                                                                                                                                     29-JUL-2003; 2003WO-US023684.
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                                                                                                                    (HMGE-) HMGENE INC
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                                                                            Chouinard R,
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                                                                            Ashar H,
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Pred. No.
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RESULT 16
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XX ADP12
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XX Prote
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XX ITANS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti coopesity pharmaceutical compositions. Specifically, it refers to a high combility group 1-C protein (HMGI-C) that is associated with obesity and combility group 1-C protein (HMGI-C) that is associated with obesity and combility group 1-C protein (HMGI-C) that is associated with obesity and combility and combility and diabetes. The present composition describes performing differential gene expression analysis between the white adipose tissue (MAT) or stromal vascular tissue (SVT) cof any two different mice selected from a group consisting of wild-type, cof any two different mice selected from a group consisting of wild-type, cof any two different mice selected from a group consistingly, using this method novel nucleotides and the encoded proteins thereof were composited that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and compositions exhibit anorectic, antidiabetic and processing and control of the invention of the invention of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                           rejection, the genes.
                                                                                                                  Diagnosing
                                                                                                                                                                                                                                     Wohlgemuth J, Rosenberg S;
                                                                                                                                                                                                                                                                                                                                                                                       24-APR-2002; 2002US-00131831
20-DEC-2002; 2002US-00325899
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue of mice of different genotypes.
                                                                                      pancreas,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              24-APR-2003; 2003WO-US012946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WO2004042346-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Protein encoding referenece mRNA sequence #51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADP12966
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADP12966 standard; protein; 1256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure;
                                                                                                                                                                                                                                                                                                                               (EXPR-) EXPRESSION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1170
                                                                                                                                                                                2004-400724/37
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             FLYDVIAST 1178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FLYDVIAST 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              adipocyte
                                                                                      g or monitoring transplant rejection, e.g. heart,
pancreatic islet, lung, bone marrow or stem cell
                                                              'n
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 541; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                          an individual,
                                                                                                                                                                                                                                                                 Fry
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                                                                                                                                                                                                                                                                                                                            DIAGNOSTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              specific protein sequence of the invention.
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                                                                                                                                                                                                                                                                 Woodward R,
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                                                       comprises detecting the expression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 44; DE Pred. No. 2.1); Mismatches
                                                                                                                                                                                                                                                                                                                            INC.
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                                                                                                                                                                                                                                                                 Ly N,
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                                                                                                                                                                                                                                                                    Morris
                                                                                      kidney, liver, transplant
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                                                          level of
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RESULT 17
AD039376
ID AD039
XX AD039
XX AD039
XX Myoca
XW Myoca
XW Cardi
XX Myoca
XW Cardi
XX Myoca
XW Cardi
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XW MPI;
DR WPI;
DR WPI
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Best Local
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has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention
                                                                                                                                                                                                   Claim 10; SEQ ID NO 1039;
                                                                                                                                                                                                                                                                              myocardial infarction by detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-045313P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lugus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDs or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered expression in renal transplantation and expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, exenctransplant rejection or mechanical organ replacement rejection, in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring
                                                                                                                 The invention relates to a novel has an altered risk for developin
                                                                                                                                                                                                                                                       myocardial infarction by detect
the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                         N-PSDB; ADQ38548.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human myocardial infarction-associated gene derived protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-DEC-2003; 2003WO-US040978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cardiant; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADQ39376 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1256 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (APPL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1170
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    FLYDVIAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Devlin JJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein; 1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            φ
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                                                                                                                                                                                                   145pp;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                        method for identifying an individua.
                                                                                                                                                                                                   English.
                                                                                                                                                                                                                                                                              an altered risk for o
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                                                                                                                                                                                                                                                                                 developing
polymorphism
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further comprises: an isolated nucleic acid molecule comprising at least

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RESULT 18
ADQ39379
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              specification and which is between about 16 and 1000 nucleotides in clength; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardal infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human myocardial infarction-associated gene derived protein, SEQ ID 1042.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                8 contiguous nucleotides where one of the nucleotides is an SNP gi-
the specification or its complement and encoding any one of the am-
acid sequences given in the specification; an isolated polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                          20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-04531159.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                           Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Myocardial infarction; detection; single nucleotide polymorphism; SNP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-NOV-2004
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                                                                                                                                                                                                                                                                                                                                                                                     (APPL-) APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-DEC-2003; 2003WO-US040978.
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9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gene therapy; human
                                                                                                                                                                                                                                                                                                                           Devlin JJ,
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                                                                                                                                                                                                                                                                                                                              Iakoubova
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 44; DB 8
Pred. No. 2.1;
0; Mismatches
                                                                                                                                                                                                                                                                                                                           0
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The invention relates to a novel method for identifying an individual who

Claim 10; SEQ ID NO 1042; 145pp; English.

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RESULT 19
ABU05243
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Best Local Similarity
                                                                                                                                                                      28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1267 AA;
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                              Chicz RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABU05243;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adenocarcinoma;
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                                                                                                      (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1181 FLYDVIAST 1189
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                                  Tomlinson
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                                  Urban RG
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2003-040607/03

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RESULT 20
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Best Local
                                                                            28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336770P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                            Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                  28-MAR-2002;
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                                                                                                                                                                                                                                                                  WO200278524-A2
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                                                                                                                                                                                                                                                                                                                                     adenocarcinoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABU05241 standard; protein; 1304 AA.
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                                                (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polypeptides (e.g. kinases, phosphatases, proteases, transporters, oskeletal proteins, receptors or transcription factors), useful for ating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                  2002WO-US009671
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                                                                                                                                                                                                                                                                                                                                   sarcoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                   protein tag (EPT) #1907.
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                                                                                                                                                                                                                                                                                                                                     melanoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 44;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                   lymphoma; leukaemia.
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2.1;
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Best Local S
Matches S
                                                                                 28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                    protease; protease innibitor, cancer; MHC; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                        28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                          WO200278524-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Human expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1304 AA;
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                                                   (ZYCO-) ZYCOS
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protease inhibitor; transporter; cyto;
                   Tomlinson
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                                                   INC.
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                 Urban RG
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Pred. No. 2.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0,
                                                                                                                                                                                                                                                                                                                                                                                                           EPT; kinase;
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                                                                                                                                                                                                                                                                                                                                                                                           protein;
                                                                                                                                                                                                                                                                                                                                                        gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0
                                                                                                                                                                                                                                                                                                                                                                                                         phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      lymphoma 

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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0,

WPI; 2003-040607/03

New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for

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RESULT 22
ADL16230
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Best Local Similarity
Thes 9; Conserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       IJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MRC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                       cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADL16230 standard; protein; 1304 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1304 AA;
                                                                                                                                            13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                           21-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunocamic common:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2; SEQ ID NO 1910; 134pp; English
                                                                                                                                                                                           13-FEB-2003; 2003WO-EP001446
                                                                                                                                                                                                                                                           WO2003068984-A2
                                                                                                                                                                                                                                                                                                                           cell-cycle abnormality; enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Etp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           treating cancer, e.g. colon cancer, gastric cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1218 FLYDVIAST 1226
                                                                                                                                                                                                                                                                                           sapiens
                            2003-712572/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 FLYDVIAST 9
                                                                                              COLD SPRING HARBOR LAB
CEPTYR INC.
                                                            Tzu-Ching
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                                            Z,
                                                                                                                                                                                                                                                                                                                                                                                                                        phosphatase
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Pred. No. 2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     BB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1304;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             lymphoma or
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RESULT 23
ADP65158
ID ADP69
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1304 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1218
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 FLYDVIAST
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   FLYDVIAST 1226
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Pred. No. 2.1
0; Mismatches
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autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induced; immunosuppressive
                                                                                                                                                                   Human protein tyrosine phosphatase, receptor type,
                                                                                                                                                                                                                                                                                  ADP65158;
                                                                                                                                                                                                                             12-AUG-2004
                                                          antiarthritic; osteopathic;
  ibromyalgia;
                                mmunomodulatory;
                                                                                                                                                                                                                          (first entry
ory; lupus; ankylosing spondylitis; Fibrositis;
osteoarthritis; gout; juvenile rheumatoid arth
                                                          antigout; antiinflammatory; dermatological;
                                                                                    immunosuppressive; antirheumatic;
     rheumatoid arthritis
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WPI; 2003 GENBANK;

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Thorton

2003-712740/67. ANK; NP_002829.

31-OCT-2001; 2001US-0336220P 31-OCT-2002; 2002WO-US035433

(CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT

04-SEP-2003 WO2003072827-A1 Homo

Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia

and

gout.

of.

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RESULT 24
ADM677209
ID ADM67
XX ADM67
X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cc genes for targeting in the treatment of rheumatoid arthritis in a mammal cother than a mouse, diagnosis of rheumatoid arthritis; diagnosis or array or gene chip, specific for rheumatoid arthritis; diagnosis or canalyses of autoimmune disease or rheumatoid arthritis; diagnosis or canalyses of autoimmune disease or rheumatoid arthritis; screening the compositions of the treatment of collagentinduced arthritis; and reducing the symptoms associated with collagentinduced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, antigout, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for composing and treating autoimmune disease or arthritides, such as theumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a analysing gene expression using the mRNA
                                                                                                                                                                                                              29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human adipocyte specific leukocyte common antigen protein SeqID 563
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADM67209 standard; protein; 1304 AA
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       WPI; 2004-143846/14
                                                                        Chada K,
                                                                                                                                             (HMGE-) HMGENE INC
                                                                                                                                                                                                                                                                                                                   29-JUL-2003; 2003WO-US023684
                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2004011618-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human; adipocyte specific; adipose tissue; anti-obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-JUN-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               the specification. It has been supplied in an electronic format from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1218
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                                                                    Chouinard R,
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                                                                        Ashar H,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 44; DB 7; Length 1304; Pred. No. 2.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                        Sayed
                                                                        AMD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0; Indels
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RESULT 25
ABO84455
ID ABO84
AC ABO84
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Best Local
                                                                                                                                                                                                                    14-FEB-2003; 2003US-00367094.

14-MAR-2003; 2003US-0038838.

15-APR-2003; 2003US-00417375.

13-JUN-2003; 2003US-00461862.

15-SEP-2003; 2003US-00663431.

15-DECC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of any two different mice selected from a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes on obesity. These compositions exhibit anorectic, antidiabetic and
   WPI; 2004-652914/63
N-PSDB; ABD32626.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human cancer-associated protein HP13-011.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-
cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                Morris
                                                                                                                                                                                                                                                                                                                                                                                                                                                  17-FEB-2004; 2004WO-US004730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 02-SEP-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-NOV-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO2004074320-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABO84455;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABO84455 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 563; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; ADM66930
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             hypotensive activities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention describes performing differential gene expression analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Lymphoma; CAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           murine adipocyte specific protein sequence of the invention.
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                                                                                                                                                           SAGRES DISCOVERY INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
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                                                                                            Morris
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 44; DB | 100.0%; Pred. No. 2.1; tive 0; Mismatches
                                                                                                Malandro MS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             This polypeptide sequence is a human homologue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DB 8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 26
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       individual, a method for inhibiting growth of cancer cells in an individual, a method for delivering a therapeutic agent to cancer cells in an individual, an electronic library comprising the above polynucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bioactive agent capable of modulating the activity of a CA protein (CAP), methods for detecting cancer associated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of CA gene in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a human CAP protein sequence. Note: The speciation, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1304 AA;
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20-DEC-2002; 2002US-0434778P
                                                    22-DEC-2003; 2003WO-US040978
                                                                                                              15-JUL-2004
                                                                                                                                                                     WO2004058052-A2
                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                             cardiant; gene therapy;
                                                                                                                                                                                                                                                                                                       Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                           Human myocardial infarction-associated gene derived protein, SEQ ID 1043
                                                                                                                                                                                                                                                                                                                                                                                                                     18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADQ39380
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADQ39380 standard; protein; 1304 AA
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9; Conserv
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Pred. No.
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The invention relates to a novel method for identifying an individual who CC has an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of CC the nucleotide sequences given in the specification in the individual's nucleotide sequences given in the specification in the individual's cCC nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least cCC acid sequences given in stolated encoding any one of the amino CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide comprising an ambino acid sequence given in the specification; an amplified polynucleotide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC polynucleotide, a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a cCC polynucleotide, a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a method for identifying an agent useful in treating or preventing composed the invention method has cardiant activity. The nucleic acid molecule is the invention method has cardiant activity.
                                             The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarctions sequence represents the protein of a human myocardial infarction. Note: To sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; SEQ ID NO 1043; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-533949/51.
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밁 Ouery Match Best Local Matches 1218 FLYDVIAST 1 PLYDVIAST Similarity 9; Conserv Conservative 1226 9 100.0%; 0 Score 44; Pred. No. DB 8; Length 1304; <u>,</u> Gaps 0

ADQ39375 standard; protein; 1306

18-NOV-2004 (first entry)

Human myocardial infarction-associated gene derived protein, SEQ ID 1038.

Myocardial infarction; detection; single nucleotide polymorphism; SNP;

cardiant; gene therapy;

Homo sapiens

WO2004058052-A2

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Search completed: May 3, 2005, 07:29:23 Job time: 71 secs
                                                                                                                                                                                                                                                               The invention relates to a novel method for identifying an individual who comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's cultivered risk for myocardial infarction in the individual's caltered risk for myocardial infarction in the individual's contiguous nucleotides where one of the SNP is correlated with an contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino coding appearance of the specification; an antibody that specifically binds to the polypeptide or its antigen-binding comprising at amino acid sequence given in the specification; an antibody that specification and which is between about 16 and 1000 nucleotides in comparising at kit for detecting an SNP in a nucleic acid molecule; a method of detecting an SNP given in the specification. The novel detecting a variant polypeptide; and a nucleic acid molecule; a method of detecting a variant polypeptide; and a nucleic acid molecule; a method of detecting a variant polypeptide; and a nucleic acid infarction. The novel detection method has cardiant activity. The macleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
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                                                                                                                                                                     Query Match 100.0%; Score 44; DB 8; Length 1306; Best Local Similarity 100.0%; Pred. No. 2.2; Matches 9; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                             Sequence 1306 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-533949/51.
N-PSDB; ADQ38547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-04531339.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 10; SEQ ID NO 1038; 145pp; English.
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                                                                                       1220 FLYDVIAST 1228
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Pred. No. score grea and is der No. is the number of results predicted by chance to have a greater than or equal to the score of the result being printed, s derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	40	100.0	9	σį	ABG31972	Abg31972 Human CD4
2	40	100.0	641	4.	AAM23689	Human
ω	40	100.0	641	6	ABU07333	Human
4.	40		664	4	AAM39262	Human
ທ	40	100.0	664	თ	ABU07334	Human
6	40		764	œ	ABO84454	
7	40	100.0	960	œ	ADQ39377	Adq39377 Human myo
80	40	100.0	1114	σ	ABU05246	Human
9	40	100.0	1114	σ	ABU05239	Human
10	40	100.0	1143	0	ABU05240	
11	40	100.0	1143	6	ABU05245	Human
12	40	100.0	1143	7	ADL16232	Adl16232 Human pro
13	40		1143	8	ADQ18845	
14	40	100.0	1149	4	AAM41048	Aam41048 Human pol
15	40	100.0	1149	0	ABU05242	Abu05242 Human exp
16	40	100.0	1192	8	ADR39747	Adr39747 Human kin
17	40	100.0	1219	œ	ADQ39378	
18	40	100.0	1256	8	ADM67187	Adm67187 Human adi
19	40	100.0	1256	œ	ADP12966	
20	40	100.0	1258	æ	ADQ39376	Adq39376 Human myo
21	40	100.0	1267	æ	ADQ39379	Human
22	40	100.0	1304	σ	ABU05243	Human
23	40	100.0	1304	σ	ABU05241	Abu05241 Human exp
24	40	100.0	1304	თ	ABU05244	
25	40	100.0	1304	7	ADL16230	Adl16230 Human pro

409 Dengue vi	Aaw09409	AAW09409	2	1127	85.0	34	45
274 Staphyloc	Ads05274	ADS05274	8	466		34	44
861 Protein 6	Abu4286	ABU42861	6	466	85.0	34	43
510 Staphyloc	Abp3851	ABP38510	vī	466	85.0	34	42
736 S. epider	Aag82736	AAG82736	.4	431		34	41
' Humar	Adj71107	ADJ71107	7	139	85.0	34	40
401 Human pro	Ada5440	ADA54401	δ	139	85.0	34	39
015 Enterococ	Adh86015	ADH86015	7	129		34	38
	Aab71252	AAB71252	ຫ	113	85.0	34	37
958 Staphyloc	Abm71958	ABM71958	σ	444	90.0	36	36
251 Protein (Abu16251	ABU16251	σ	444	90.0	36	35
_	Aau36890	AAU36890	4	444	90.0	36	34
849 Staphyloc	Aau33849	AAU33849	4	354	90.0	36	ω u
	Aag54653	AAG54653	w	170	90.0	36	32
654 Zea mays	Aag54654	AAG54654	w	151	90.0	36	31
Human	Adq39375	ADQ39375	æ	1306	100.0	40	30
380 Human myo	Adq39380	ADQ39380	œ	1304	100.0	40	29
455 Human can	Abo84455	ABO84455	8	1304	100.0	40	28
Human	Adm67209	ADM67209	8	1304	100.0	40	27
Human	Adp65158	ADP65158	7	1304	T00.0	40	26

ALIGNMENTS

RESULT 1 ABG31972 Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen, allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CPU-GM; leukaemia; colly forming unit-granulocyte macrophage; immunotherapeutic; becomy forming unit-granulocyte macrophage; Human CD45 HLA-binding peptide, huCD45/576. WO200244207-A1 Homo sapiens. 05-NOV-2002 (first entry) ABG31972 standard; haematopoietic; malignant. ABG31972; peptide; 9 A

06-JUN-2002.

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

30-NOV-2000; 2000WO-GB004566.

30-NOV-2000; 2000WO-GB004566

HJ. Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
AAM23689
ID AAM23689
XX AAM2
XX AAM2
XX Huma
XX Huma
XX Hom
KW Hom
KW Gené
XX Gené
XX Gené
XX Hom
YX HOM
PP 25-
XX HOM
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PP 25-
XX HOM
PP 17-
PR 117-
PR 15-
XX HOM
PN 117-
PR 118-
PT IIS-
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches
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                                                                                                Claim 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-JAN-2000; 2000US-00491404.
17-JUL-2000; 2000US-00617746.
03-AUG-2000; 2000US-00631451.
15-SEP-2000; 2000US-00663870.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                tomato; monkey; dog; sea urchin; expressed sequence diagnostics; forensic test; gene mapping; genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAM23689
                                                                                                                                                              antibodies
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                                                                                                                                                          Isolated polypeptide for treatment antibodies and research use.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           02-AUG-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; sheep; pig;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AAM23689 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-JAN-2001; 2001WO-US002687.
                                                                                                                                                                                                                                                                                     2001-476164/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                \vdash
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                                                                                                                                                                                                                                                           AAH98348
                                                                                                                                                                                                                                                                                                                                                                                                                                            HYSEQ INC.
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                                                                                                                                                                                                                                                                                                                                               Drmanac RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALIAFLAFL
                                                                                          Page 875-876; 1275pp; English.
                                                                                                                                                                                                                                                                                                                                                                               Liu C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 encoded protein SEQ ID NO:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                                                                                                                                                                                                                                                                                                               Zhou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cow; fruit fly; yeast; hamster; macaque; horse;
g; sea urchin; expressed sequence tag; EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein; 641
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                               Zhang
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J, w
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 40;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                  Werhman
                                                                                                                                                                                                                                                                                                                                                                                      XH,
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                                                                                                                                                                                       of diseases,
                                                                                                                                                                                                                                                                                                                                                                            Wang
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                                                                                                                                                                                       diagnostics,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          disorder; biodiversity;
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The present invention provides the protein and coding sequences of novel proteins from a variety of organisms, including human, dog, cat, horse,

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Best Local S
                                                                                                                                                                                                                                                                                                                                                         01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
          The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MRC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protease; protease innibitor, cancer; MHC; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; major histocompatability complex; myeloma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cow, pig, hamster, monkey, macaque, yeast, urchin and tomato. These were derived from from the organism of interest. They can be forensics, gene mapping, identification of biodiversity and for nutritional purposes. protein of the invention
                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                        Example
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                                                                                                                                                                                                                                                                                                                                                                                                    08-AUG-2001;
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21-MAY-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Translational profiling; expressed protein tag; EPT; kinase; protease; protease inhibitor; transporter; cytoskeletal prote
                                                                                                                                                                                                    leukemia.
                                                                                                                                                                                                                                                                                                                               (ZYCO-)
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 colon cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ALIAFLAFL
                                                                                                                                                                        SEQ ID NO 2034; 134pp; English
                                                                                                                                                                                                                                                                                                     Tomlinson
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2001US-0292544P.

2001US-0310801P.

2001US-0326370P.

2001US-0336780P.

2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                               INC.
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gastric cancer,
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Pred. No. 24;
0; Mismatches
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  adenocarcinoma,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         bacteria, fruit fly, sea expressed sequence tags (ESTs) used in diagnostics, mutations, to assess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gastric cancer;
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  melanoma
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RESULT 4
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Best Local s
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23-DEC-1999; 99US-00471275.
21-JAN-2000; 2000US-00488725.
25-APR-2000; 2000US-00552317.
20-JUN-2000; 2000US-00598042.
19-JUL-2000; 2000US-00620312.
03-AUG-2000; 2000US-00653450.
14-SEP-2000; 2000US-00662191.
19-CCT-2000; 2000US-00653036.
29-NOV-2000; 2000US-00727344.
                                                                                                                                                                                                                                                                                                                                                                     Tang YT,
Wang J,
Zhou P,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; druq screening: arrheitic arrheitic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (BPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
encoded polypeptides (AAM38642-AAM42213) with novelestides are useful immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous of the invention may be used to treat diseases of the peripheral nervous of the peripheral nervous injuries, peripheral neuropathy and
                                                                                                                                                                                                                           Novel nucleic acids and po
as central nervous system
                                                                                                                                                                                 Example 4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HYSE-)
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                                                                                                                                     invention relates
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9; Conserv
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                                                                                                                                                                                                                                                                                                     AAI58418
                                                                                                                                                                                                                                                                                                                                                                                              Liu C,
Wang Z,
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Wehrman T,
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                                                                                                            s to human nucleic acids (AAI57798-AAI61369) (AAM38642-AAM42213) with nootropic,
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100.0%; Pred. No.
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Xu C
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Zhang
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01-OCT-2001;
04-DEC-2001;
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed
                                                                                                                                                                          New polypeptides (e.g. kinas cytoskeletal proteins, recept treating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Translational profiling; expressed protein tag; EPT; kir protease; protease inhibitor; transporter; cytoskeletal receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Inmune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, architis and inflammation, leukaemias and assays for receptor activity, architis and inflammation.
                                                                                                                                                                                                                                                                                                                                                                                      28-MAR-2001;
21-MAY-2001;
                                                                                                                                     Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       adenocarcinoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           expressed
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                                                                                                                                  SEQ ID NO 2035; 134pp; English
                                                                                                                                                                                                                                                                   Tomlinson
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2001US-0326370P.
2001US-0336780P.
2002US-0358985P.
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2001US-0292544P.
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Pred. No.
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tal protein;
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RESULT 6
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Best Local :
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The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polymucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the abovementioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 polynucleotide sequences as mentioned in the specification, or its
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for serening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 664 AA;
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14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-00461862.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human cancer-associated protein HP13-011.1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-652914/63.
N-PSDB; ABD32625.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; cancer-associated protein; cytostatic; cancer; leukaemia;
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                                                                                                                                                                                                                                                                                                                                                                     claim 18;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SAGR-) SAGRES DISCOVERY INC
                                                                                                                                                                                                                                                                                                                                                                                                                       isolated cancer-associated polynucleotides and polypeptides useful diagnosing, preventing or treating cancers, especially lymphoma an kemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  417
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                                                                                                                                                                                                                                                                                                                                                               seqid 145; 310pp; English.
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2003US-00737318.
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Matches 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                       Identifying an individual myocardial infarction by the individual's nucleic a
                                                                                                                                                                                                                                                                                                                                                 20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human myocardial infarction-associated gene derived protein, SEQ ID 1040.
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                                           Claim 10; SEQ ID NO 1040;
                                                                                                                                                                                    WPI; 2004-533949/51.
N-PSDB; ADQ38549.
                                                                                                                                                                                                                                                         Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-DEC-2003; 2003WO-US040978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Myocardial infarction; detection; single nucleotide polymorphism; SNP;
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                                                                                                                                                                                                                                                                                                       (APPL-) APPLERA CORP
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                                                                                                                                                                                                                                                           Iakoubova
                                                                                                           who has an altered risk for developing detecting a single nucleotide polymorphism
                                                                                            acids.
                                         145pp; English
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Pred. No. 28;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 764;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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The invention relates to a novel method for identifying an individual who

altered risk for developing myocardial infarction.

or

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ABU05246
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC comprises detecting a single nucleotide polymorphism (SNP) in any one of Ct the nucleotide sequences given in the specification in the individual's CR nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least CR contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the mino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody CC that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC splynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and CC method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or CC composition for treating or preventing myocardial infarction. Note: This sequence represents the protein of a human myocardial infarction. Note: This could be containing one or more SNP's of the invention. Note: This could be contained to the specification. The sequence has come from the effort of sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 9
                                                                                    28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0316370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                 Chicz RM,
                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                  28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                         10-OCT-2002
                                                                                                                                                                                                                                                                                             WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                    adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABU05246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence
                                                     (ZYCO-) ZYCOS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABU05246 standard; protein; 1114 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         l Similarity
9; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    960
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                 Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein tag
                                                                                                                                                                                                                                                                                                                                                                  sarcoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                 Ą.
                                                                                                                                                                                                                                                                                                                                                                  melanoma; lymphoma; leukaemia
                 Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (EPT) #1912.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 40;
Pred. No.
                 RG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           36;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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RESULT 9
ABU052339
ID ABU0
XX ABU0
XX ABU0
XX TYAN
DE Huma
XX Tran
CW Prot
KW rece
KW majo
KW aden
XX Homo
XX 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention describes a purified polypeptide, which comprises a configuent of a kinase, phosphatase, protease, protease inhibitor. The protease in cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, Ilymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational specification but was obtained in electronic format directly from WIPO at fip.wipp.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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Best Local
                                                                                                                                                                                       28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                          Chicz RM,
                                                                                                                                         04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                       28-MAR-2002;
                                                                                                                                                                                                                                                                                                                                                                                           10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABU05239 standard; protein; 1114 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                 (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating cancer, e.g. colon cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-040607/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               386 ALIAFLAFL 394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              9
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                          Tomlinson
                                                                                                                                   ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                       2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein tag (EPT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sarcoma; melanoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO 1912; 134pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 40;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  #1905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Gaps
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WPI; 2003-040607/03

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RESULT 10
ABU05240
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local Similarity
                                                                                  28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                               Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABU05240 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example 2; SEQ ID
                                                                                                                                                                                                                                              10-OCT-2002
                                                                                                                                                                                                                                                                                 WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               leukemia.
                                                   (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                            28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                treating cancer, e.g. colon cancer, gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      386 ALIAFLAFL 394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 ALIAFLAFL 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NO 1905; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         (EPT) #1906.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 40;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1114;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Gaps
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CC fragment of a kinase, phosphatase, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this C polypeptide, is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational CC specification but was obtained in electronic format directly from WIPO at CC ftp.wipo.int/pub/published_pct_sequences
Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                     describes a purified polypeptide, which comprises kinase, phosphatase, protease, protease inhibitor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NO 1906; 134pp; English.
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Query Match
Best Local
                                                                                              Matches
ABU05245 standard; protein; 1143 AA.
                                                    415
                                                                         1 ALIAFLAFL 9
                                                                                              9;
                                                                                                         Similarity
                                                    ALIAFLAFL 423
                                                                                              Conservative
                                                                                                        100.0%;
                                                                                              <u>,,</u>
                                                                                                        Score 40; DB
Pred. No. 42;
                                                                                               Mismatches
                                                                                              0
                                                                                              <u>.</u>.
                                                                                              Gaps
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DB 6

Length 1143;

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RESULT 11 ABU05245 Human 29-JAN-2003 (first entry) expressed protein tag (EPT) #1911.

Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.

WO200278524-A2 Homo sapiens.

28-MAR-2002; 10-OCT-2002. 2002WO-US009671.

28-MAR-2001; 21-MAY-2001; 08-AUG-2001; 01-OCT-2001; 04-DEC-2001; 20-FEB-2002; , 2001US-0279495P. ; 2001US-0292544P. 2001US-0310801P. ; 2001US-0326370P. ; 2001US-0336780P. ; 2002US-0358985P.

(ZYCO-) ZYCOS INC.

RM. Tomlinson Ę Urban RG

Chicz RM,

Tomlinson

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Urban

RG

2003-040607/03

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RESULT 12
ADL16232
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor. The cytoskeletal protein, receptor or transcription factor. The playeppide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypeptide or class I or class II MHC-binding polypeptide. The polypeptides and polypeptides are also useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                 cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorde:
                                                                                                                                                                                                                                                                                                                                                                                                                                   Human protein tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-MAY-2004
                                                                                                                                              13-FEB-2002; 2002US-0356810P
12-FEB-2003; 2003US-00366547
                                                                                                                                                                                                                                21-AUG-2003
                                                                                                                                                                                                                                                                  WO2003068984-A2
                                                                                                                                                                                                                                                                                                                                   cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADL16232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADL16232 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1143 AA;
                                                             Tonks NK,
                                                                                                                                                                                               13-FEB-2003; 2003WO-EP001446
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  treating cancer, e.g. colon cancer, gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                              (COLD-) COLD SPRING HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity nes 9; Conserv
              2003-712572/67
DB; ADL16231.
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                                                           Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 1911; 134pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
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                                                               Σ
                                                                                                                                                                                                                                                                                                                                   enzyme.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB
                                                                                                                                                                                                                                                                                                                                               allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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RESULT 13
ADQ18845
ID ADQ18
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The invention of the PTP enzyme of the propension of the PTP enzyme of the convention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 9
                                                                                           Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          screening
cancer or
                                                                                                                                                               WPI; 2004-441208/41
                                                                                                                                                                                              Aziz N,
                                                                                                                                                                                                                                                                                                 26-NOV-2003;
                                                                                                                                                                                                                                                                                                                                  10-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human soft tissue sarcoma-upregulated protein - SEQ ID 1664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADQ18845 standard; protein; 1143 AA
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                                                                                                                                                                                                                                                                26-NOV-2002; 2002US-0429739P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO
                                                                                                                                                                                                                                 (PROT-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       415 ALIAFLAFL
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                                                                                                                                                                                                                               PROTEIN DESIGN LABS INC
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                                                                                                                                                                                              Ginsburg WM,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     42;
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The invention relates to a novel method for detecting soft tissue sarcowhich comprises obtaining a first soft tissue sample from an individual

Example 2; SEQ ID NO 1664; 210pp; English.

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Query Match
Best Local S
Matches 9
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21-JAN-2000; 2000US-00488725.
25-APR-2000; 2000US-00552317.
20-JUN-2000; 2000US-00598042.
19-JUL-2000; 2000US-00620312.
03-AUG-2000; 2000US-0062191.
14-SEP-2000; 2000US-00662191.
19-OCT-2000; 2000US-006319.
29-NOV-2000; 2000US-0063134.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma upregulated protein of the invention. The current sequence is that of a human soft tissue sarcoma upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human polypeptide SEQ ID NO 5979.
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Novel nucleic acids and polypeptides, useful as central nervous system injuries.
                                                             N-PSDB;
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                                                                                                                                                                                                      (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  leukaemia.
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                                                                                  2001-442253/47
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                                                                                                                      Liu C,
Wang Z,
Goodrich
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                                                                                                                    Asundi V,
Wehrman T,
h R, Drmanac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein; 1149 AA
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Xu (
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Pred. No.
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                   treating disorders
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Zhang
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                                                                                                                                           Wang D;
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                     such
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Example 2; SEQ ID NO 5979; 10078pp; English

The invention relates to

human nucleic acids

(AAI57798-AAI61369)

and

the

The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription fact

factor.

The

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Matches 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Translational profiling; expressed protein tag; EPT; kinase; protease; protease inhibitor; transporter; cytoskeletal protreceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gasiadenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-MAY-2001;
08-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence
                                                                                                           Example 2;
                                                                                                                                                                                       New polypeptides (e.g. cytoskeletal proteins, treating cancer, e.g. (
                                                                                                                                                                                                                                                                                                     WPI; 2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-MAR-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABU05242;
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                                                                                                             SEQ
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; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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ilarity 100.0%;
Conservative 0
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A
                                                                                                             IJ
                                                                                                             NO 1908;
                                                                                                                                                                                       e.g. kinases, phosphatases, proteases, transporters, ins, receptors or transcription factors), useful for.g. colon cancer, gastric cancer, sarcoma, lymphoma
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Pred. No.
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43;
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RESULT 16
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458644P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                                                      New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP express e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infective
                                                                                                                                                                                                                                                          Ramkumar J, Marquis JP, Swarnakar A, Chaw
Becha SD, Lee SY, Hafalia AJA, Richardson
Jackson AA, Yang J, Gorvad AE;
Claim 1; SEQ ID NO 20; 299pp; English
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                                                                                                                                                                           2004-635568/61.
DB; ADR39793.
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           disorder; Hypothyroidism; Cushing's syndrome;
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Pred. No.
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rdson TW,
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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's

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RESULT 17
AD039378
ID AD039378
ID AD039378
AC AD039
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AC AD039
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Best Local
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                                                                                                                                                                                                       Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453132P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
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                                                                                                                                                   Claim
                                                                                                                                                                                                                                                                                                                                                                                                                   Cargill M,
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9; Conserva
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Pred. No. 44;
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RESULT 18
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Best Local S
Matches 9
                 Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissumice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification, an isolated polypeptide
                                                                                                                                                                     Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human adipocyte specific PTPase receptor type C protein SeqID 541
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADM67187 standard; protein; 1256 AA
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                                                                                                                                                                                                                                               29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                         29-JUL-2003; 2003WO-US023684.
                                                                                                                                                                                                                                                                                                                                           05-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                     WO2004011618-A2
                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                           (HMGE-) HMGENE INC.
                                                                                                                               2004-143846/14.
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                                                                                                                                                                     Chouinard
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               genotypes
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                   Sayed AMD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 45;
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                                 vascular tissue
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Best Local S
Matches 9
The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an indivicomprises detecting the expression level of one or more genes. The
                                                                                                                                Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1256
                                                                           Claim 65; SEQ ID NO 2975; 1762pp; English
                                                                                                                                                                                                             WPI; 2004-400724/37.
                                                                                                                                                                                                                                                 Wohlgemuth J, Rosenberg S;
                                                                                                                                                                                                                                                                                                                                              24-APR-2002;
20-DEC-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO2004042346-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein encoding referenece mRNA sequence #51.
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                                                                                                                                                                                                                                                                                                          EXPR-) EXPRESSION DIAGNOSTICS
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2002US-00325899.
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Pred. No. 47;
0; Mismatches
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                                                                                                                                                                                                                                                                    Prentice J, Morris
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RESULT 20
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Best Local
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comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-045313E9.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                 The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cardiant; gene therapy; human.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human myocardial infarction-associated gene derived protein, SEQ ID 1039
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expression in renal transplantation and expression.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2004-533949/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                              145pp; English.
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Pred. No.
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RESULT 21
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention
                                                                                                                                                                          Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                   20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                           Claim 10;
                                                                                                                                                                                                                                N-PSDB;
                                                                                                                                                             the individual's nucleic
                                                                                                                                                                                                                                                                                 Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                           22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cardiant; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human
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                                                                                        The invention
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    myocardial infarction-associated gene derived protein, SEQ ID 1042.
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                                                                                                                           SEQ ID NO 1042;
                                                                                                                                                                                                                                                                                 Devlin JJ,
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                                                                                       relates to a novel method for identifying an individual who
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  therapy;
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                                                                                                                                                                                                                                                                                   Iakoubova
                                                                                                                                                             acids.
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Pred. No.
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                                                                                                                         English.
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RESULT 22
ABU05243
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21-MAY-2001; 2001US-029544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336730P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; mHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of the colon cancer, gastric cancer, ga
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1267 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                         (ZYCO-)
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                                                                                                                                                                                                                                                                                                                                    Tomlinson
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100.0%; Pred. No.
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New polypeptides (e.g. cytoskeletal proteins, treating cancer, e.g. of

e.g. colon cancer,

kinases, phosphatases, proteases, transporters, receptors or transcription factors), useful for colon cancer, gastric cancer, sarcoma, lymphoma

lymphoma or

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RESULT 23
ABU05241
A CONTRACTOR OF THE PROPERTY O
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Best Local S
Matches
                                                                                                                                                                                                                                                                                                                    28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MRC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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                                                                                                               WPI; 2003-040607/03.
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                                                                                                                                                                                                                                 (ZYCO-)
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Pred. No.
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RESULT 24
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC useful for identifying compounds that binds to a naturally processed CC useful for identifying compounds that binds to a naturally processed CC class I or class I MHC-binding polypeptide. The polypeptides and CC polypuckleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational consisting in electronic format directly from WIPO at the constitution but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local :
                                                                                                                                                                          28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                       receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Translational profiling; expressed protein tag; EPT; kinase; phoprotease; protease inhibitor; transporter; cytoskeletal protein;
                                                                                                                                                                                                                                                                                                   28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                                                                                                                        WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human expressed protein tag (EPT) #1910.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABU05244;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ABU05244 standard; protein; 1304 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                           (ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Local Similarity
nes 9; Conserv
                                                                        2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            576
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                                                                                                        Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 1907; 134pp; English.
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ilarity 100.0%;
Conservative 0
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                                                                                                        ξ,
                                                                                                          Urban
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Pred. No. 48;
D; Mismatches
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48;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phosphatase;
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RESULT 25
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ID ADL16
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Best Local Similarity
Matches 9; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MEC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                            cytostatic; immunosuppressive; antiallergic;
protein tyrosine phosphatase; reversible oxidation; dephosphorylation;
inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor.
                                                                                                                                                                                                                                                                                                    21-AUG-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1304 AA;
                                                                                                                                                                                                                   13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                   13-FEB-2003; 2003WO-EP001446.
                                                                                                                                                                                                                                                                                                                                  WO2003068984-A2
                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                               cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADL16230 standard; protein; 1304 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
                                                                                                                                                                      (COLD-) COLD SPRING HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       leukemia
                                                                                         2003-712572/67
DB; ADL16229.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       576 ALIAFLAFL 584
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ALIAFLAFL 9
                                                                                                                                     Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 1910; 134pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           tyrosine phosphatase
                                                                                                                                       Z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 40;
100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                               enzyme
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48;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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Disclosure; SEQ ID NO 79; 238pp; English

Identifying reversibly oxidized protein tyrosine screening for specific modulators, potential ager cancer or autoimmune disease.

phosphatase,

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ADP65158
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
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                                                                              profiles and rheumatoid ar
                                                                                 Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia and
Disclosure; Page; 56pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      31-OCT-2002; 2002WO-US035433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antiarthritic; osteopathic; antigout; antiinflammatory; dermatological;
immunomodulatory; lupus; ankylosing spondylitis; Fibrositis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human
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                                                                                                                                                                                                                                   WPI; 2003-712740/67.
                                                                                                                                                                                                                                                                                                                                                                                                             31-OCT-2001; 2001US-0336220P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003072827-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rheumatoid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            12-AUG-2004
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                                                                                                                                                                                                                                                                                                                                                         (CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT.
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                                                                                                                                                                                                                                                                                          Thorton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disease; arthritide; gene expression analysis; arthritis; collagen-induced; immunosuppressive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               tyrosine phosphatase, receptor type,
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Pred. No.
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The invention relates to a novel method for diagnosing and analysing

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RESULT 27
ADM67209
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Best Local S
Matches
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Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
                                                                                                                                                                                                                                                                                                                                                                                                                               high mobility group I-C protein; HMGI-C; obesity; leptin; ob; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, antiquit, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as rheumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, fibromyalgia, osteoarthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
                                                                               N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human adipocyte specific leukocyte common antigen protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         03-JUN-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADM67209 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1304 AA;
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                                                                                                                                     Chada K,
                                                                                                                                                                                                                  29-JUL-2002;
12-JUN-2003;
                                                                                                                                                                                                                                                                           29-JUL-2003; 2003WO-US023684.
                                                                                                                                                                                                                                                                                                                                                        WO2004011618-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       autoimmune disease or arthritides. The method comprises obtaining
                                                                                                                                                                                                                                                                                                                    05-FEB-2004
                                                                                                                                                                                (HMGE-) HMGENE INC
                                                                               2004-143846/14.
DB; ADM66930.
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                                                                                                                                       Chouinard R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                2002US-0398785P.
2003US-0478206P.
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                                                                                                                                       Ashar H,
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Pred. No. 48;
0; Mismatches
                                                                                                                                         Sayed AMD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 7; Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
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claim 18; seqid 147; 310pp; English.

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ABO84455
ID ABO8
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XX ABO8
XX ABO8
XX ABO8
XX Huma
XX Iymg
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-003B838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of any two different mice selected from a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-obesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the obgene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (MAT) or strongly useful tissue (SVT) of the strongly approximate that the strongly approximate the suppose that the suppose the suppose the suppose that the suppose the suppose the suppose that the suppose the suppose that the suppose the suppose that the suppose the suppose the suppose that the suppose the suppose the suppose the suppose the suppose that the suppose th
                             New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
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                                                                                                                                                                                                                                                                                                                               Morris
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nes 9; Conserv
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DB; ABD32626.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard; protein; 1304 AA.
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Matches
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                                                                                                20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human myocardial infarction-associated gene derived protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above the isolated nucleic acid cited above, a host cell comprising the above the isolated nucleic acid cited above, a host cell comprising the above the isolated nucleic acid cited above.
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                                                                                                                                                                                                                                            22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Myocardial infarction; detection; single nucleotide polymorphism; SNP;
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(APPL-) APPLERA CORP
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100.0%; Pred. No. 48
tive 0; Mismatches
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48;
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RESULT 30
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Best Local
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the individual's nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cargill M,
                                                                                                                                                                                                                                                              Human myocardial infarction-associated gene derived protein, SEQ ID 1038
                                                                                                                                                                                                                                                                                                         18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                   ADQ39375 standard; protein; 1306 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                    22-DEC-2003; 2003WO-US040978
                                                                              15-JUL-2004
                                                                                                                    WO2004058052-A2
                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                   cardiant;
                                                                                                                                                                                                                      Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                               ADQ39375;
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                                                                                                                                                                                                 gene therapy; human.
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Pred. No. 48;
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20-DEC-2002; 2002US-0434778P

Search completed: May 3, Job time: 71.6757 secs

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The invention relates to a novel method for identifying an individual who CC comprises detecting a single nuclectide polymorphism (SNP) in any one of CC comprises detecting a single nuclectide polymorphism (SNP) in any one of CC the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC the specification or its complement and encoding any one of the invention CC the specification or its complement and encoding any one of the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid molecule; a method of detecting a NSNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and encodial infarction. The novel detection method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detection method has an increased or more sequence represents the protein of a human myocardial infarction. This composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                     Query Match
Best Local
   Matches
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30-APR-2003;
23-SEP-2003;
                                                                             Sequence 1306 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB; ADQ38547
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2003US-0466412P.
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                     Score 40; DB
Pred. No. 48;
   Mismatches
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                                       80
   0;
                                     Length 1306;
     Indels
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Result
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Maximum Match 100%
Listing first 45 summaries
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129.455 Million cell updates/sec
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Copyright (c) 1993 - 2005 Compugen Ltd.
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sulfite reductase
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A, Molecule type: mRNA A; Residues: 1-31,193-649,'L',651-1 A; Cross-references: GB: Y00062; NII A; Cross-references: GB: Y00062; NII A; Experimental source: clones pHL/ A; Accession: B29449 A, Status: not compared with concel A; Molecule type: mRNA A; Residues: 32-192 <ra2> A, Experimental source: clone HLC R; TBai, A.Y; Streuli, M.; Saito, Mol. Cell. Biol. 9, 4550-4555, 19) A; Title: Integrity of the exon 6: A; Reference number: I57658; MUID: A; Status: preliminary; translated A; Molecule type: DNA A; Residues: 146-192 <res></res></ra2>	A; Scatus: preliminary A; Molecule type: mRNA A; Residues: 1-1304 <str> A; Cross-references: UNIROT: D08575; A; Cross-references: UNIROT: D08575; A; Accession: B46546 A; Accession: B46546 A; Accession: B46546 A; Molecule type: mRNA A; Residues: 1-32, 99-264 <st2> A; Cross-references: GB: Y00638 A; Experimental source: clone LCA.111 A; Accession: C46546 A; Status: preliminary A; Molecule type: mRNA A; Residues: 1-31, 193-264 <st3> A; Cross-references: GB: Y00638 A; Residues: 1-31, 193-264 <st3> A; Cross-references: GB: Y00638 A; Residues: 1-31, 193-264 <st3> A; Cross-references: GB: Y00638 A; Resperimental source: clone LCA.1 R; Ralph, S. J; Thomas, M.L; Morton, EMBO J. 6, 1251-1257, 1987 A; Title: Structural variants of huma A; Reference number: A91066; MUID: 872 A; Accession: A29449</st3></st3></st3></st2></str>	RESULT 1 A46546 leukocyte common antigen lon, leukocyte common antigen lon, N; Alternate names: CD45; pro N; Contains: leukocyte common C; Species: Homo sapiens (man C; Date: 10-Sep-1999 #sequenc C; Accession: A46546; B46546; B, Streuli, M.; Hall, L.R.; S. J. Exp. Med. 166, 1548-1566, A; Title: Differential usage (A; Reference number: A46546; A; Accession: A46546;	66666666666666666666666666666666666666
s: 1-31,193-6 sferences: GB sferences: GB antal source: nn: B29449 not compared type: mRNA s: 32-192 <rn 146-192="" 32-192="" <r<="" <rn="" dna="" i5="" i57658="" i:="" no:="" number:="" of="" preliminary;="" s:="" td="" the="" thegrity="" type:=""><td>preliminary by type: making s: 1-1304 <8 siferences: U ental source nn: B46546 preliminary s: 1-32,99-2 ental source nn: C46546 preliminary s: 1-32,99-2 ental source nn: C46546 preliminary s: 1-31,193 si type: making preliminary si type: making si type: maki</td><td>e common an late names: ns: leukocy s: Homo sap io: A46546 i, M.; Hall Different; nce number:</td><td>00000000000000000000000000000000000000</td></rn>	preliminary by type: making s: 1-1304 <8 siferences: U ental source nn: B46546 preliminary s: 1-32,99-2 ental source nn: C46546 preliminary s: 1-32,99-2 ental source nn: C46546 preliminary s: 1-31,193 si type: making preliminary si type: making si type: maki	e common an late names: ns: leukocy s: Homo sap io: A46546 i, M.; Hall Different; nce number:	00000000000000000000000000000000000000
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869,'G',871-872,'A',87 D:934275; PIDN:CAA6826 C-1 and lambdaHLG1 ptual translation 2 H. 89 Bequence is essential 90066468; PMID:2531281 from GB/EMBL/DDBJ	5; GB:Y00638 6/2 111 and clone LCA.260 10, C.C.; Trowbridge, 10, T200 glycoprotein	ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ALIGNMENTS ACCESSION: A46546; MUID:88061067; PMID:2824653 Accession: A46546 Accession: A46546; MUID:88061067; PMID:2824653 Accession: A46546	E83879 QQVZF2 H42512 G72159 S31087 T28511 C70244 E70244 E70244 C64527 C64527 T25944 C7376 D70324 S55845
4-1206,'P',1208-1304 <ral> 9.1; PID:g34276 for tissue-specific alternative s</ral>	I.S. (leukocyte-common antigen).	uman receptor type c; T200 glycoprote: e form; leukocyte common antigen t change 09-Jul-2004 7658 Saito, H. least five different mRNAs encor	hypothetical prote F2 protein - vacci 25K myristylated I NIR protein - vari LIR protein - vari ilR protein - vari hypothetical prote cell-cell signalin antigen, P35 homol hypothetical prote M protein - Helico regucalcin homolog hypothetical prote MG269 homolog F11 gluconate 2-dehydr hypothetical prote gluconate 2-dehydr hypothetical prote 3-isopropylmalate

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C; Pate: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
C; Accession: E96518
R; Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alon Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, ansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-820, 2000
A; Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marzia Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A; Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallo Rer, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A; Title: Sequence and analysis of Chromosome 1 of the plant Arabidopsis.
A; Accession: E96518
A; Status: preliminary
A; Accession: E96518
A; Status: preliminary
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C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Superfamily: leukocyte common antigen; phosphoprotein; phosphoric monoester hyd C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC> F;675-899/Domain: protein-tyrosine-phosphatase homology <PTP> F;675-899/Domain: protein-tyrosine-phosphatase homology <PTP> F;851/Active site: Cys (phosphocysteine intermediate) #status predicted F;857/Binding site: substrate phosphate (Arg) #status predicted
A;Molecule type: DNA
A;Residues: 1-172 <STO>
A;Cross-references: UNIPROT:Q9FZF7; GB:AE005173; NID:g9802600; PIDN:AAF99802.1; GSPDB:GN
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C; Superfamily:
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A;Description: Sulfolobus solfataricus complete genome.
A;Reference number: A99139
A;Accession: G90485
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C;Genetics:
A;Gene: GDB:PTPRC; CD45
A;Cross-references: GDB:119768; OMIM:151460
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C;Species: Arabidopsis thaliana (mouse-ear cress)
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A; Residues: 1-285 < KUR>
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Matches 6
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A.; Authors: Foulger, D.; Fritz, C.; Fujita, M.; Fujita, Y.; Fuma, S.; Galizzi, A.; Galler iech, J.; Harwood, C.R.; Henaut, A.; Hilbert, H.; Holsappel, S.; Hosono, S.; Hullo, M.F. Koetter, P.; Koningstein, G.; Krogh, S.; Kumano, M.; Kurita, K.; Lapidus, A.; Lardinois, A.; Authors: Lauber, J.; Lazarevic, V.; Lee, S.M.; Levine, A.; Liu, H.; Masuda, S.; Maueel Y., M.; Ogawa, K.; Ogiwara, A.; Oudega, B.; Park, S.H.; Parro, V.; Pohl, T.M.; Portetelle Rieger, M.; Rivolta, C.; Rocha, E.; Roche, B.; Rose, M.; Sadaie, Y.; Sato, T.; Scanlon, A.; Anuthors: Schleich, S.; Schroeter, R.; Scoffone, F.; Sekiguchi, J.; Sekowska, A.; Seror akeuchi, M.; Tamakoshi, A.; Tanaka, T.; Terpstra, P.; Tognoni, A.; Tosato, V.; Uchiyama, T.; Winters, P.; Wipat, A.; Zumstein, E.; Yoshikawa, H.; Danchin, A.
A.;Title: The complete genome sequence of the Gram-positive bacterium Bacillus subtilis. A.; A.; A.; Cesssion: C69891
A.;Accession: C69891
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A;Experimental source: strain Bristol N2; clone C12D5
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Species: Bacillus subtilis
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: C69851
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C;Accession: T30067
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A; Gene: T2E6.12
A;Experimental source: strain 168 C;Genetics: A;Gene: yjiC
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A; Introns: 11/1; 29/3; 77/3; 232/3; 260/2; 319/2; 371/1; 451/3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein C12D5.8 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
                                                                                                                  A; Molecule type: DNA
A; Residues: 1-392 <K
                                                                                                                                                                           A; Status: preliminary; nucleic acid sequence not shown; translation not shown
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                                                                                          A; Cross-references: UNIPROT: 034539;
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77.8%;
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Pred. No. 18;
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Pred. No. 5.
                                                                                          GB:Z99110; GB:AL009126; NID:g2633472; PIDN:CAB13079
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RESULT 8
C91081
 sulfite reductase (NADPH) beta subunit [imported] -
C;Species: Escherichia coli
C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #
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Infect. Immun. 63, 1767-1776, 1995
A;Title: A plasmid-encoded regulatory region activates chromosomal A;Reference number: 154685; MUID:95247259; PMID:7729884
                                                                                                                                                                                                                                                                                                                                                                                                                                              perA protein - Becherichia coli
C;Species: Escherichia coli
C;Date: 07-Jun-1996 #sequence_revision 07-Jun-1996 #text_change 07-Jun-1996
C;Accession: I54685
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Nature 406, 477-483, 2000
A;Title: DNA Sequence of both chromosomes of the cholera pathogen A;Reference number: A82035; MUID:20406833; PMID:10952301
A;Accession: D82415
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A; Residues: 1-205 < RES>
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A;Status: preliminary; translated
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C; Superfamily:
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A; Residues: 1-678 <H
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C;Accession: D82415
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Best Local S
Matches 7
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18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
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Pred. No.
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Pred. No.
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                                      Escherichia coli (strain
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H.; Dragoi,
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I.; Sellers,
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A;Status: preliminary; translated fr
A;Molecule type: DNA
A;Residues: 1-796 <WIL>
A;Cross-references: UNIPROT:P91983;
A;Experimental source: clone C50B6
C;Genetics:
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A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 A;Reference number: A99829; MUID:21156231; PMID:11258796
A;Accession: C91081
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C;Date: 15-Oct_1999 #sequence_revision 15-Oct-1999
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                                                                                                                 A; Reference number: A; Accession: T20091
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A;Reference number: Z19222
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C; Superfamily: sulfite reductase
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A;Molecule type: DNA
A;Residues: 1-599 <STC
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A; Reference number: A85480; MUID:21074935; PMID:11206551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sulfite reductase (NADPH) beta subunit [imported] - Escherichia coli (strain C_iSpecies: Escherichia coli
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C;Keywords: flavoprotein
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A; Residues: 1-599 <HAY>
                                                                                                                                                                                               C;Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPROT:Q8X7U1; GB:AE005174; A;Experimental source: strain O157:H7, substrain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: UNIPROT:Q8X7U1; GB:BA000007; A;Experimental source: strain O157:H7, substrain
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R; Hayashi, T.; Maki
                                                                                                                                                                                                                                                     hypothetical protein C50B6.8 - Caenorhabditis elegans
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Local Similarity 87.5%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       98
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87.58;
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EDL933
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RIMD 0509952
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Potamousis,
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K.; Ap
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EMBL: Z81050; PIDN: CAB02857.1; GSPDB: GN00023; CESP: C5

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hypothetical protein F32B5.7 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                  glycosyl transcrase amsD - Erwinia amylovora C;Species: Erwinia amylovora C;Species: Erwinia amylovora C;Date: 15-Jul-1995 #sequence_revision 21-Jul-1995 #text_change 09-Jul-2004 C;Accession: S61897; S52144 R;Bugert, P.; Geider, K. Mol. Microbiol. 15, 917-933, 1995 Mol. Microbiol. 15, 917-933, 1995 A;Title: Molecular analysis of the ams operon required for exopolysaccharide synthesis A;Reference number: S61891; MUID:95319333; PMID:7596293 A;Accession: S61897
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A71208
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A; Map position: 5
A; Introns: 215/3; 316/2;
                                                                           RESULT 13
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S52144
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A;Note: this accession replaces an C;Genetics:
A;Gene: PH1929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kusnida, N.; Oguci DNA Res. 5, 55-76, 1998
A;Title: Complete sequence and gene organization of the genome of a hyper-thermophilic A;Reference number: A71000; MUID:98344137; PMID:9679194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R; Kawarabayasi, Y.; Sawada, M.; M.; Ohfuku, Y.; Funahashi, T.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 C;Species: Pyrococcus horikoshii
C;Species: Pyrococcus horikoshii
C;Date: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 09-Jul-2004
C;Accession: A71208
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Best Local
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Residues: 1-351 <BU2>
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66.7%;
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Tanaka, T.; Kudoh, Y.;
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Pred.
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Pred. No.
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; Yamazaki,
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Kushida, 1
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                     A; Experimental source: strain VF5 C; Genetics:
                                                                      A;Status: preliminary; nucleic
A;Molecule type: DNA
A;Residues: 1-180 <AQF>
                                                                                                                        Nature 392, 353-358, 1998
A;Title: The complete genome
A;Reference number: A70300; M
A;Accession: F70454
                                                                                                                                                                                                                                             hypothetical protein aq 1795 - Aquifex aeolicus
C;Species: Aquifex aeolicus
C;Date: 08-May-1998 #sequence_revision 08-May-1998 #text_change 09-Jul-2004
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                                                       A; Cross-references: UNIPROT: 067664;
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aq_1795

G.; Warren,

P.V.:

Gaasterland,

T.;

Young, W.G.;

Lenox,

A.L.;

Graham,

D.E.;

δ

Aquifex aeolicus

e of the hyperthermophilic bacterium MUID:98196666; PMID:9537320

Aquifex

acid

sequence not shown;

translation not

ahown

GB:AE000756; NID:g2984076; PIDN:AAC07626.1; PID:g298

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A; Note: bphA2f C; Superfamily: toluene dioxygenase terminal oxygenase component
                                                                                                                                                                                                                                                                                                                                                 R;Romine, M.F.; Stillwell, L.C.; Wong, K.K.; submitted to the EMBL Data Library, July 1998 submitted to the EMBL Data Library, July 1998 special to the EMBL Data Library and 184 kb (A;Description: Complete sequence of a 184 kb (A)
                                                                                                                                                                                                                                                                                                                                                                                                             biphenyl dioxygenase homolog - Sphingomonas aromaticivorans plasmid pNL1 c;Species: Sphingomonas aromaticivorans C;Date: 11-Jan-2000 #sequence_revision 11-Jan-2000 #text_change 09-Jul-2004 C;Accession: T31133
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A; Introns: 65/3; 102/3;
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A;Residues: 1-680 <LED>
A;Cross-references: UNIPROT:001849; EMBL:AF003148; PIDN:AAB54209.1; GSPDB:GN00019; CESP:A;Experimental source: strain Bristol N2; clone F32B5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A; Reference number: Z20702
A; Accession: T29871
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Ledwith, J.; Graves, T.; Biewald, T. submitted to the EMBL Data Library, May 1997
A;Description: The sequence of C. elegans cosmid F32B5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C; Accession: T29871
R; Ledwith, J.; Grav
                                                                                                                                                                                                                                                                                                              A; Reference number: Z20992
A; Accession: T31133
                                                                                                                                                                                                                                  A; Cross-references: UNIPROT: 085842;
                                                                                                                                                                                                                                                         A;Residues:
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PROSITE; PS00383; TYR PHOSPHATASE 1; 1.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 1.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 1.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 1.

Hydrolase. 1

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SEQUENCE 433 AA; 50151 MW; BBABBOCC4F008
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InterPro; IPR008957; FN_III-like.
InterPro; IPR008957; FN_III-like.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_P.
Pfam; PF00041; fn3; 1.
Pfam; PF00102; Y phosphatase; 1.
PFNITS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; I.
SMART; SM00064; PTDC; 1.
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Q6PJK7;
05-JUL-2004 (TrEMBLrel. 27,
05-JUL-2004 (TremBLrel. 27,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.

Montoya G.E., Vernot J.P., Patarroyo M.E.;

Montoya G.E., Vernot J.P., Patarroyo M.E.;

Submitted (MAR-2001) to the EMBL/GenBank/DDBJ databases.

EMBL; AF364095; AAM48511.1; -.

HSSP; P18052; 1YFO.

HSSP; P18052; 1YFO.

GO; GO:00167787; F:hydrolase activity; IEA.

GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

GO; GO:0006470; P:protein acid dephosphorylation; IEA.
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Q1-QCT-2002 (TrEMBLrel. 22,
01-QCT-2002 (TrEMBLrel. 22,
01-MAR-2004 (TrEMBLrel. 26,
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Aotus vociferans (Spix's owl monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae; Aotinae; Aotu
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Q991871
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Q603z6
Q801870
Q6de20
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RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
RX Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RX Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RX Klausner R.D., Collins F.S., Wagner L., Schaefer C.F., Bhat N.K.,
RX Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RX Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RX Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hosh F.,
RX Hopkins R.F., Jordan H., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RX Hopkins R.F., Jordan B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RX Hopkins R.F., Joule R., Toshiyuki S., Carninci P., Prange C.,
RX Stapleton M., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RX Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RX Brownstein M.J., Usdin T.B., Toshiyuki S., Garnason R.D., Mullahy S.J.,
RX Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RX Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.W.,
RX Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RX Richards S., Worley K.C., Hale S., Garcia A.M., Gibbs R.A.,
RX Richards S., Worley K.C., Hale S., Garcia A.M., Gibbs R.A.,
RX Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RX Mitting M., Madan A., Young A.C., Shevchenko Y., Boutfard G.G.,
RX RA Willalon D.K., Schaman J.W., Green E.D., Dickson M.C.,
RX RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RX RZWinski M.I., Skalska U., Smailus D.E., Schmerch A., Schein J.E.,
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InterPro; IPR008957; FN_III-like.
InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 1.
PRINTS; PR00700; PRTYPHPHTASE.
ol-MAR-2003 (TrEMBLrel. 23, Created)
Ol-MAR-2003 (TrEMBLrel. 23, Last sequence update)
Ol-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN full-
length enriched library, clone:E230015G23 product:protein tyrosine
phosphatase, receptor type, C, full insert sequence. (Fragment).
Name=Ptprc;
                                                                                                                                                                         Q8C6Q7
Q8C6Q7;
Q1-MAR-2003
01-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Submitted (SEF-2001) to the EMBL/GenBank/DDBJ databases EMBL; BC014239; AAH14239.1; -. HSSP; P18031; 1AAX.

GO; GO:0004725; F:protein tyrosine phosphatase activity.
GO; GO:0004707; F:protein mino acid dephosphorylation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE; PS50853; FN3; 2:
PROSITE; PS50055; TYR PHOSPHATASE_PTP;
NON_TER 756 756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRINTS; PR00700; PRTYPHP SMART; SM00060; FN3; 2. SMART; SM00194; PTPC; 1.
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756 AA;
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A Adachi J., Aizawa K., Akimura T., Arakawa T., Bono H., Carninci P.,
A Fukuda S., Furuno M., Hanagaki T., Hara A., Hashizume W.,
A Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,
A Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,
A Katoh H., Kawai J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,
A Kurihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,
A Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,
A Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tanaka T.,
A Tagawa A., Takahashi F., Takaku-Akahira S., Takeda Y., Tanaka T.,
Tomaru A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.,
I Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.

RMCD. MCC. 2012 DECEMBER A., Parka M., P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE-20530913; PubMed=11076861; DOI=10.1101/gr.152600; Shibata K., Itoh M., Aizawa K., Nagaoka S., Sasaki N., Carninci P., Konno H., Akiyama J., Nishi K., Kitsunai T., Tashiro H., Itoh M., Sumi N., Ishii Y., Nakamura S., Hazama M., Nishine T., Harada A., Yamamoto R., Matsumoto H., Sakaguchi S., Ikegami T., Kashiwagi K., Pujiwake S., Inoue K., Togawa Y., Izawa M., Ohara E., Watahiki M., Yoneda Y., Ishikwa T., Ozawa K., Tanaka T., Matsuura S., Kawai J., Okazaki Y., Muzamatsu M., Inoue Y., Kira A., Hayashizaki Y.; "RIKEN integrated sequence analysis (RISA) system-384-format sequencing pipeline with 384 multicapillary sequencer.";
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| SEQUENCE FROM N.A.
| STRAIN=C57BL/6J; TISSUE=Oviduct;
| STRAIN=C57BL/6J; PubMed=11217851; DOI=10.1038/35055500;
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STRAIR=C57BL/6J; TISSUE=Oviduct;

STRAIR=C57BL/6J; TISSUE=Oviduct;

MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;

Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata K.,

Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.;

"Normalization and subtraction of cap-trapper-selected cDNAs t
prepare full-length cDNA libraries for rapid discovery of new
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Nature 420:563-573(2002).
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STRAIN=C57BL/6J; TISSUE=Oviduct;
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STRAINEC57BL/6J; TISSUE=Oviduct;
MEDLINE=99279253; Pubbled=10349636;
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Mammalia; Eutheria;
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"High-efficiency full-length cDNA cloning.";
y MGI:97810; Ptprc.
GO:0009897; C:external side of plasma GO:0009897; C:integral to membrane; TP GO:0005515; F:protein binding; IPI. GO:0030133; P:B-cell differentiation; GO:0042100; P:B-cell proliferation; IN GO:0030217; P:T-cell differentiation;
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Best Local S
Matches 9
                                                           Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

Pfam; PR00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00194; PTPC; motif; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50053; FN3; 2.

PROSITE; PS50038; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
  Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL;
HSSP;
GO; GO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         STRAIN=Sprague-Dawley;
MEDLINE=85201691; PubMed=3158393; DOI=10.1016/0092-8674(85)90063-7;
Thomas M.L., Barclay A.N., Gagnon J., Williams A.F.;
"Evidence from cDNA clones that rat leukocyte-common antigen (T200)
spans the lipid bilayer and contains a cytoplasmic domain of 80,000 M-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27, 05-JUL-2004 (TrEMBLrel. 27,
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SMART; SM00194; PTPC; 1.

PROSITE; PS50853; FN3; 2.

PROSITE; PS00383; TYR PHOSPHATASE 1; 1.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 1.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
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05-JUL-2004
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Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                  InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
InterPro; IPR003595; PTPC motif.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
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Mammalia; Eutheria;
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                                               PROSITE; PS50055;
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InterPro; IPR008957;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Leukocyte common antigen
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                                                                                                                                                                                                                                                                                                                                                                               P; P18031; 1A5Y.
GO:0016787; F:hydrolase activity; IEA.
GO:0004725; F:protein tyrosine phosphatase activity;
GO:00006470; P:protein amino acid dephosphorylation; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GO:0042098;
GO:0046652;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          41:83-93 (1985)
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                                   TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; FN_III.
; FN_III-like.
; TYR_phosphatase.
    109934
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Pred. No.
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Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
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    D2E6B7F23D29CC92 CRC64;
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RESULT 5
CD45_MOUSE
ID 5_CD45_MOUSE
ID 4_CM058
ID 7_C045_MOUSE
AC P06800;
DT 01-JAN-1988 (
C Mammalia; Eut
OX (I] TaxID=IC
RN (I] TaxID=IC
RN (I] RN MEDILINE=8631;
RA Saga Y., Tung
RT "SEQUENCE OF INSUS=T-cell
RN MEDILINE=8709;
RA Saga Y., Tung
RT Proc. Natl. ;
RN [3]
RP SEQUENCE OF INSUSET-cell
RX MEDILINE=8709;
RA RABCHE W.C.
RA BOYSE E.A.;
RT "Cloning of |
Proc. Natl. ;
RN [4]
RP SEQUENCE OF MEDILINE=9729
RA Arendt C.W.,
RT "Identificat the alpha- a
RL J. Biol. Che
CC -1- FUNCTION
CC TISSUSTITE
CC -1- SUBUNIT:
CC -1- SUBUNIT:
CC -1- SUBUNIT:
CC -1- SUBURIT:
CC -1- SUBCELLU
CC -1- DEVELOPM
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 -!- DEVELOPMENTAL STAGE: Expression is compartment of development.
-!- PTM: Heavily N- and O-glycosylated-
-!- SIMILARITY: Belongs to the protein-
Receptor class 1/6 subfamily.
                                                                                                                                                    tyrosine + phosphate.
-!- SUBUNIT: Binds GANAB and PRKCSH.
-!- SUBCELLULAR LOCATION: Type I men
-!- ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                          Arendt C.W., Ostergaard H.L.;
"Identification of the CD45-associated 116-kDa and the alpha- and beta-subunits of alpha-glucosidase I J. Biol. Chem. 272:13117-13125(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=86313686; PubMed=2944116;
Saga Y., Tung J.-S., Shen F.-W., Boyse E.A.;
"Sequences of Ly-5 cDNA: 1soform related diversity
Proc. Natl. Acad. Sci. U.S.A. 83:6940-6944(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Leukocyte common antigen precursor (EC 3.1.3.48) common antigen Ly-5) (CD45) (T200).
                                                                                                                                                                                                                     first one.
-!- CATALYTIC ACTIVITY: Protein tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                             and T-lymphocyte lineages.";
Proc. Natl. Acad. Sci. U.S.A. 84:161-165(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JAN-1988 (Rel. 05-JUL-2004 (Rel.
                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=97294720; PubMed=9148925;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE OF 822-1152 FROM N.A. MEDLINE=87092355; PubMed=2948186;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=10090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                "Cloned murine T200 (Ly-5) cDNA reveals multiple
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Shen F.-W., Saga Y.,
                                                                                                                                                                                                                                                                                                                                                                                             INTERACTIONS WITH GANAB AND PRKCSH.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=86042665; PubMed=3864163;
                                                                                                                                                                                                                                                        FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the
                                                                                                                      Event=Alternative splicing; Nau
Comment=A number of isoforms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      397
                                                                                    IsoId=P06800-1; Sequence=Displayed;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tung
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ly-5 cDNA.";
Acad. Sci. U.S.A. 82:7360-7363(1985).
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Acad. Sci.
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i. U.S.A. 84:1991-1991(1987).
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               protein-tyrosine
                                                                                                                                                                       I membrane protein
                                                                                                                    Named isoforms=1;
cms are produced;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                transcripts within
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                                                                      hematopoietic
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SIMILARITY: Contains 2 fibronectin type III domains. SIMILARITY: Contains 2 protein-tyrosine phosphatase domains.

(See http://www.isb-sib.ch/announce/

collaboration

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GO; GO:0005515; F:protein binding; IPI.
InterPro; IPR003961; FN III-like.
InterPro; IPR003957; FN III-like.
InterPro; IPR00387; TYR_phosphatase.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 3.
Pfam; PF00102; Y_phosphatase; 2.
PFAMT; PF00102; Y_phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
PROSITE; PS50053; FN3; 2.
PROSITE; PS500383; TYR_PHOSPHATASE_1; 2.
PROSITE; PS500383; TYR_PHOSPHATASE_2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PT; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PT; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PT; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PT; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_PT; 2.
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EMBL; M11934; AAA39461.1; -.
EMBL; M1574; AAA40161.1; -.
PIR; A23329; A23329.
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                                                                       Similarity 9; Conserv
MIWEOKATV 595
                                   MIWEQKATV 9
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Protein-tyrosine phosphatase
Phosphocysteine intermediate
                                                                                           Score 48;
Pred. No.
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Extracellular (Potential)
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                                                                           Mismatches
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; Signal; T-cell;
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[3]
ALTERNATIVE SPLICING.
MEDLINE=87275817; PubMed=2440674;
Barclay A.N., Jackson D.I., Willis A.C., Williams A.F.;
"Lymphocyte specific heterogeneity in the rat leucocyte
"Lymphocyte specific heterogeneity in the sequences ne
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RAT
CD45 R
P04157
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01-AUG-1988 (Rel. 08, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation updat
Leukocyte common antigen variant 4 precurse
(CD45) (T200) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Barclay A.N., Jackson
Submitted (MAY-1987)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
 EMBL;
EMBL;
                                              use by non-profit institutions as long modified and this statement is not removed. entities requires a license agreement (See lor send an email to license@isb-sib.ch).
                                                                                             This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the EM the European Bioinformatics Institute. There are no restr
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Cell 41:83-93(1985).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Thomas M.L.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=85201691; PubMed=3158393;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Evidence from cDNA
                                                                                                                                    sites.
SIMILARITY: Belongs to the protein-tyrosi
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type I
SIMILARITY: Contains 2 protein-tyrosine p
                                                                                                                                                                                                                                                                                                                                                                                                                                  the second one seems to affect the substrate spec
first one.
CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                                                                                                                                                          TISSUE SPECIFICITY: Variants 4 and 3 are variants 1 and 2 are found in thymocyte PTM: Heavily N- and O-glycosylated.
PTM: The cytoplasmic domain contains pot
                                                                                                                                                                                                                                                                                                                                                                                    tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH
SUBCELLULAR LOCATION: Type I men
ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         FUNCTION: Required for T-cell activation through receptor. The first PTPase domain has enzymatic a
                                                                                                                                                                                                                                                                                                Name=3
                                                                                                                                                                                                                                                                                                                                                              Event=Alternative splicing;
Comment=Additional isofor
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Y00065;
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                                                                                                                                                                                                                                                                                    IsoId=P04157-3; Sequence=VSP_005166
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  6:1259-1264(1987).
                                                                                                                                                                                                                                                                                                          [d=P04157-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1691; PubMed=3158393; DOI=10.1016/0092-8674(85)90063-7; Barclay A.N., Gagnon J., Williams A.F.; om cDNA clones that the rat leukocyte-common antigen
; CAA68272.1;
; CAA68273.1;
; CAA68274.1;
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                                                                                                                                                                                                                                                                                                                                      Sequence=Displayed,
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Sciurognathi; Muridae;
                                                                                                                                                                                     protein-tyrosine
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                                                            http://www.isb-sib
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                                                                                                                                              III domains.
phosphatase domains.
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; Murinae; Rattus
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R PROSITE; PSS0853; TYR PHOSPHATASE 1; 2.

R PROSITE; PSS00383; TYR PHOSPHATASE 2; 2.

R PROSITE; PSS0056; TYR PHOSPHATASE PTP; 2.

R PROSITE PSS0056; TYR PHOSPHATASE PTP; 2.

R PROSITE; PSS0056; TYR PHOSPHATASE PTP; 2.

R PROSITE PT
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EMBL; MZ5820; AAA41518.1; -.
EMBL; MZ5821; AAA41519.1; -.
EMBL; MZ5821; AAA41520.1; -.
EMBL; MZ5823; AAA41521.1; -.
EMBL; MZ5823; AAA41521.1; -.
HSSP; P18052; TYFO.
RGD; 3451; Ptprc.
InterPro; IPR003961; FN III.
InterPro; IPR003967; FN III-1ike
InterPro; IPR003967; TR phosphat
InterPro; IPR000387; TYR phosphat
InterPro; IPR000387; TYP PP.
Pfam; PF00102; Y phosphatase; 2.
PRLNTS; PR00700; PRTYPHPHTASE.
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SEQUENCE
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; FN_III-like.
; TYR_phosphatase.
; TYr_PP.
                                                                                                                                                                                   100.0%;
                                                                                                                                                                                                                                                                     /FTId=VSP 005167.
Missing (In isoform 4
/FTId=VSP 005168.
S -> R (in Ref. 3).
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Phosphocysteine intermediate
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Pred. No.
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Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50853; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
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EMBL; AY445818; AAS06903.1; -.

GO; GO:0004725; F:protein tyrosine phos
GO; GO:0006470; P:protein amino acid de
InterPro; IPR003961; FN III.

InterPro; IPR003957; FN III-like.
InterPro; IPR003957; FTPC motif.
InterPro; IPR003595; FTPC motif.
InterPro; IPR003595; TYR phosphatase.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
Dev. Immunol. 1:243-254(1991).
EMBL; M92933; AAA39459.1; -.
HSSB; P18052; 1YFO.
MGD: MGI:97810; Ptprc.
GO; GO:0009897; C:external side
GO; GO:0016021; C:integral to me
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Q6ED60;
25-OCT-2004
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CD45.
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Q61812; O1-NOV-1996 (TrEMBLrel. 01,
01-NOV-1996 (TrEMBLrel. 01,
01-OCT-2003 (TrEMBLrel. 25,
                                                                                                                                                                                             STRAIN=BALB/c;
MEDLINE=92361152; PubMed=1822988;
Zebedee S.L, Barritt D.S., Raschk
"Comparison of mouse Ly5 A and Ly
alleles.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Lymphocyte common antigen precursor.
Name=Ptprc; Synonyms=Ly5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Aocu. Eukaryota; Mecu. Eukaryota; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mus musculus
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae; Aotinae; Aotu
                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Comparative analysis vs. human.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Montoya G.E.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MIWEQKATV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (Mouse).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chordata;
Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
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s of CD45 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     145616 MW;
                                                                                                                                                                                                                              Raschke
and Ly5
   side of plasma membrane;
to membrane; TAS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Last sequence update)
Last annotation update)
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Last
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein
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                                                                                                                                                                                                                                  common antigen
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Best Local S
Matches 9
Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pfam; PP00041; fn3; 3.1-ff.

Pfam; PP000102; Y phosphatase; 2.

Pfam; PP00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FM3; 2.

SMART; SM00044; PTPC; 2.

SMART; SM00194; PTPC; 2.

PROSITE; PS50853; FVR; PHOSPHATASE 1; 2.

PROSITE; PS50085; TYR PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR PHOSPHATASE PTP; 2.

PROSITE; PS50055; TYR PHOSPHATASE PTP; 2.

Hydrolase; Signal.

SIGNAL

SIGNAL

1 23 Potential.
                                                                      Pfam; PF00041; fn3; 2.

Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC; motif; 2.

SMART; SM003404; PTPC; motif; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_PTP; 2.

Hydrolase.

1303 AA; 146929 MW; DOEB0C640D
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q6ED61;
25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                    Tissue Antigens 64:165-172(2004).

EMBL; AY445817; AAS06902.1; -.

GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.

InterPro; IPR003951; FN III.

InterPro; IPR003957; PTFC_motif.

InterPro; IPR003955; PTFC_motif.

InterPro; IPR003957; TYR_phosphatase.

InterPro; IPR000387; TYR_phosphatase.

InterPro; IPR000387; TYR_phosphatase.
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GO; GO:0030183; P:B-cell differentiation; IMP.
GO; GO:0042100; P:B-cell proliferation; IMP.
GO; GO:0030217; P:T-cell differentiation; IMP.
GO; GO:0040598; P:T-cell proliferation; IMP.
GO; GO:0046598; P:T-cell proliferation; IMP.
GO; GO:0046598; P:T-cell proliferation; IMP.
InterPro; IPR003961; FN III.
InterPro; IPR003961; FN III.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000342; Tyr PP.
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Mammalia; 1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  vs. human."
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Comparative analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Montoya G.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Aotus nancymaae (Ma's night monkey)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eutheria;
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Primates;
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144559 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
100.0%;
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s of CD45 protein in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28,
28,
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Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
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Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Craniata; Vertebrata; Euteleostomi; Platyrrhini; Cebidae; Aotinae; Aotus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 48; DB 2;
Pred. No. 1.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PRT;
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                                                                            DOEB0C640D1D17E8 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1303
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                        DB 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          primate context: owl monkeys
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1291;
                        Length 1303;
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Q6ED62

Q6ED62

AC Q6ED6

AC Q6ED6

AC Q6ED6

DT 25-QC

DT 25-QC

DT 25-QC

DT 25-QC

DT 25-QC

CD45.

OS Accuse

OC MAMMA

TITES

DR Inter

DR SAARI

DR PEAM,

DR PEAM,

DR PEAM,

DR PEAM,

DR PEAM,

DR SMARI

DR SMARI

DR SMARI

DR SMARI

DR SMARI

DR PROSI

DR PROSI
RESULT 11
CD45 HUMAN
ID CD45 HOMS
AC P0855
AC P0855
AC P0855
AC P0856
DT 10-00
DT 10-00
DT 05-UI
DE Leuke
DE (T20)
GN Names
OC Homo
OC Buka:
OX NCBI
RN 1[1]
RP SEQUI
RC TISSI
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Best Local S
Matches
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Pfam; PF00102; Y phosphatase; 2.

Pfam; PF00100; PRTYPHPHTASE.

PRART; SM00060; FN3; 2.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC; motif; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50853; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q6ED62;
Q6ED62;
25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                                                          CD45 HUMAN STANDARD; PK1; CD45 HUMAN STANDAR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Aotus nigriceps (Black-headed owl monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
NCBI_TaxID=57175;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                    HUMAN
SEQUENCE FROM N.A. TISSUE=Lymphocytes;
                                                                                                 Homo sapiens (Human)
Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
InterPro; IPR008959; PTC_motif.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tissue Antigens 64:165-172(2004).

EMBL; AY445816, AAS06901.1; -.

GO: 0004725; F:protein tyrosine phosphatase activity;

GO; GO:0006470; P:protein amino acid dephosphorylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
                                                                        NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Montoya G.E., Vernot J.P., Patarroyo M.
"Comparative analysis of CD45 protein i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      PubMed=15245371;
                                                                                                                                                                                    Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                            (T200)
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9; Conserv
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Primates;
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Pred. No. 1.1;
0; Mismatches
                                                                                                         Craniata; Vertebrata; Catarrhini; Hominidae;
                             AND
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Aotinae; Aotus.
                                                                                                                                 Euteleostomi;
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IEA.
                                                                                                                                                                                                                                       (CD45 antigen)
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MUTAGENESIS.
 EMBL;
EMBL;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDLINE=89017162; PubMed=2845400; Charbonneau H., Tonks N.K., Walsh K.A., Fischer E "The leukocyte common antigen (CD45): a putative protein tyrosine phosphatase."; Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Streuli M., Hall L.R., Saga Y., Schlossman S.F., Saito "Differential usage of three exons generates at least i mRNAs encoding human leukocyte common antigens.";
                                                                                                                                modified and this statement
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Hall L.R., Streuli M., Schlossman 9 "Complete exon-intron organization antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
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SEQUENCE OF 191-1304 FROM
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                                                                                                                                                                                                         IsoId=P08575-2; Sequence=VSP_007780;
PTM: Heavily N- and O-glycosylated.
SIMILARITY: Belongs to the protein-tyrosine phospha
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                                                                                                                                                                       tyrosine + phosphate.
SUBUNIT: Binds GANNA and PRKCSH (By similarity).
SUBCELLULAR LOCATION: Type I membrane protein.
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
                                                                                                                           ween the Swiss Institute of Bioinformat
European Bioinformatics Institute. The
by non-profit institutions as long
ified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                            first one.
CATALYTIC ACTIVITY: Protein
                                                                                                                                                                                                                                                                                                                       Name=2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  FUNCTION: Required for T-ce receptor. The first PTPase
                                                                                                                                                       SWISS-PROT entry is copyright. It is produced through a collaboration een the Swiss Institute of Bioinformatics and the EMBL outstation - European Bioinformatics Institute. There are no restrictions on its
Y00638;
Y00062;
M23492;
M23496;
M23466;
M23466;
M23466;
                                                                                                                                                                                                                                                                                                                                    IsoId=P08575-1;
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CTION: Required for T-cell activation through
CTION: T- First PTPage domain has enzymatic a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                       second one seems to affect the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            6:1251-1257(1987).
                                                                                                                   requires
                                                                                                       equires a license agreement (S email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Thomas M.L., Morton C.O variants of human T200
CAA6869.
CAA68269.
AAD15273.
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ne human leukocyte common
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                                                                                                                   http://www.isb-sib
                                                                                                                                                                                                                           phosphatase
entry;
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Interpro;
Interpro;
Pfam; PF00102; Y phosphatas.,
Pfam; PF00102; Y phosphatas.,
PRINTS; PR00100; PRTYPHPHTASE.

A PROSITE; PS00853; FTNR PHOSPHATASE 1; 2.
DR PROSITE; PS00383; TYR PHOSPHATASE 2; 2.
DR PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
PROSITE; PS50055; TYR PHOSPHATASE 7; 2.
PROSITE; PS50055; TYR PHOSPHATASE, PTP; 2.
       EMBL; M23469; AAD15273.2
EMBL; M23470; AAD15273.2
EMBL; M23470; AAD15273.2
EMBL; M23472; AAD15273.2
EMBL; M23473; AAD15273.2
EMBL; M23474; AAD15273.2
EMBL; M23474; AAD15273.2
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EMBL; M23476; AAD15273.2
EMBL; M23477; AAD15273.2
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EMBL; M23487; AAD15273.2
EMBL; M23488; AAD15273.2
EMBL; M23489; AAD15273.2
EMBL; M23490; AAD15273.2
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GO:0007166;
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IPR000242;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        07166; P.cell surface receptor linked signal transdu.
IPR003961; FN III.like.
IPR003957; FN III-like.
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                                                                                                                                                                                                                                                                                                                                                   Potential.
Cytoplasmic (Potential
Fibronectin type-III 1
Fibronectin type-III 2
 N-linked
                                                                                                                                                                                                                                                                                                    Protein-tyrosine phosphatase
Protein-tyrosine phosphatase
Phosphocysteine intermediate
                                                                                                                                                                                                                                                                                   Phosphocysteine
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 (GleNac
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ılar (Potential).
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; Signal; T-cell;
                                                                                                                                                                                                                                                                                 intermediate
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(Potential)
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Best Local S
Matches
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Q64730;
01-NOV-1996
01-NOV-1996
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VARSPLIC
  EMBL;
                                                                                                                                                                                                                                                                                                                         EMBT'
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL;
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J. Biol
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MUTAGEN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A. MEDLINE=89197920;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=87260986; PubMed=2955416;
Thomas M.L., Reynolds P.J., Chain A.,
"B-cell variant of mouse T200 (Ly-5):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=10090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mus musculus (Mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Johnson N.A., Meyer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          splicing."
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               M23148; AAA39418 1; JU M23150; AAA39418 1; JU M23151; AAA39418 1; JU M23153; AAA39418 1; JU M23155; AAA39418 1; JU M23156; AAA39418 1; JU M23156; AAA39418 1; JU M23134; AAA39418 1; JU M23134; AAA39418 1; JU M23133; AAA39418 1; JU M23133; AAA39418 1; JU M23130; AAA39418 1; JU M23130; AAA39418 1; JU M23130; AAA39418 1; JU M23140; AAA39418 1; JU
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 leukocyte-common antigen gene."; Chem. 264:6220-6229(1989).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           conservation in potential regulatory
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1207
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Rodentia;
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01, Last sequence update)
25, Last annotation update)
n (L-CA) (Fragment).
JOINED.
JOINED
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Missing (in isoform 2).
/FTId=VSp 007780.
C->S: LOSB of activity.
L -> P (in Ref. 1).
P -> L (in Ref. 1).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 48; DB
Pred. No. 1.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   84:5360-5363(1987).
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evidence fo
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Best Local S
Matches
R GO; GO:0016787; F:hydrolase activity; IEA.
R GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA
R GO; GO:000470; P:protein amino acid dephosphorylation; IEA,
R GO; GO:0006470; F:n; 1.
R Pfam; PF00102; Y_phosphatase; 2.
R Pfam; PF00102; Y_phosphatase; 2.
R PFANY; PR00700; PRTYPHPHTASE.
R SMART; SM00106; FN3; 2.
R SMART; SM00104; PTPC; 2.
R PROSITE; PS50055; FN3; ITA PHOSPHATASE_1; 1.
R PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
R PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; M23158; AAA39418.1; JOINED.

EMBL; M23152; AAA39418.1; JOINED.

HSSP; P18052; 1YFO.

GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.

InterPro; IPR003961; FN III.

InterPro; IPR000387; TYR phosphatase.

InterPro; IPR000387; TYR phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q91976 PRELIMINARY; PR
Q91976; O1-NOV-1996 (TrEMBLrel. 01, Crea
01-NOV-1996 (TrEMBLrel. 01, Last
05-UUL-2004 (TrEMBLrel. 27, Last
Protein tyrosine phosphatase lam
phosphatase lambda precursor).
Gallus gallus (Chicken).
                                                                                                                                                              "A transmembrane protein-tyrosine phosphatase repeats in its extracellular domain.";
J. Biol. Chem. 269:14056-14063(1994).
EMBL; 221960; CAA79972.1; -.
EMBL; L13285; AAA20561.1; -.
PIR; A54080; A54080.
HSSP; P18052; 1YPO.
                                                                                                                                                                                                                                                                                                                                repeats in J. Biol. Ch
                                                                                                                                                                                                                                                                                                                                 Fang K.S., Barker K., Sudding, Phosphatase "A transmembrane protein-tyrosmain."; repeats in its extracellular domain.";
                                                                                                                                                                                                                                                                                                                                                                TISSUE=Brain;
Fang K.S., Barker K.,
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Pfam; PF00102; Y phosphatase;
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
                                                                                                                                                                                                                                                             MEDLINE=94245724; PubMed=8188686; Fang K.S., Barker K., Sudol M., Hanafusa
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         PROSITE; PS50853; FN3; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2

PROSITE; PS50055; TYR_PHOSPHATASE_PTP;

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ODEBD:
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                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        13
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Similarity 100.0%;
9; Conservative (
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Neognathae; Galliformes; Phasianidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Last sequence update)
Last annotation update)
e lamda precursor (Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Created)
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Pred. No. 1.1
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 8
                                                        16-OCT-2001 (Rel. 40, Created)
16-OCT-2001 (Rel. 40, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
Protein tyrosine phosphatase, non-receptor type
(Protein-tyrosine phosphatase 1E) (PTP-E1) (hPT)
(Protein-tyrosine phosphatase PTPL1) (Fas-associ
phosphatase 1) (FAP-1).
Name=PTRN13; Synonyms=PNP1, PTP1E, PTPL1;
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Okumura M., Matthews R.J., Robb B., Bork P., Thomas M.L.;
Submitted (AUG-1995) to the EMBL/GenBank/DDBJ databases.
EMBL; U34750; AAB01087.1; -.
PIR; T43148; T43148.
HSSP; P18052; 1YFO.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0016787; F:protein tyrosine phosphatase activity; IEA.
GO; GO:0004725; F:protein amino acid dephosphorylation; IEA.
Pfan; PF00102; Y phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                         Q12923; Q15159;
Q9NYN9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE; P850853; FN3; 1.

PROSITE; P850083; TYR PHOSPHATASE 1; 2.

PROSITE; P850055; TYR PHOSPHATASE PTP; 2.

PROSITE; P850055; TYR PHOSPHATASE PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata;
Elasmobranchii; Galeomorphii;
Heterodontidae; Heterodontus.
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SIGNAL
                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             CD45 homolog.
Heterodontus francisci (Horn
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RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
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RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Richards S., Worley K.C., Shevchenko Y., Bouffard G.G.,
RA Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smailus D.E.,
RA Schnerch A., Schein J.E., Jones S.J.M., Marra M.A.;
"Generation and initial analysis of more than 15,000 full-length human and mouse cDNA sequences.";
Legoc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (2002).
INTERACTION WITH TRIPS.

MEDLINE=99329089; PubMed=10400701; DOI=10.1074/jbc.274.29...

Murthy K.K., Clark K., Fortin Y., Shen S.-H., Banville D.;

"ZRP-1, a zyxin-related protein, interacts with the second of the cytosolic protein tyrosine phosphatase hprpip"

J. Biol. Chem. 274:20679-20687/1000\(^1\)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Wang H.Y.;
Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G. Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., SALTECHUL S.F., Zeeberg B., Buetow K.H., Schaefer C.F.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Maekawa K., Imagawa N., Nagama
"Molecular cloning of a novel
a membrane-binding domain and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Banville D., Ahmad S., Stocco R., Shen S.-H.; "A novel protein-tyrosine phosphatase with homolocytoskeletal proteins of the band 4.1 family and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "FAP-1: a protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MEDLINE=22388257; PubMed=12477932;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Saras J., Claesson-Welsh L., Heldin C.-H., Gonez L.J.; "Cloning and characterization of PTPL1, a protein tyrosine with similarities to cytoskeletal-associated proteins.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Fibroblast;
MEDLINE=95014139; PubMed=7929060;
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SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=94116679; PubMed=8287977;
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GLGF repeats.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             DOI=10.1073/pnas.242603899;
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Yoshida S., Harada H., Nagai H., Fukino K., Teramoto A., Emi M.;
"Head-to-head juxtaposition of Fas-associated phosphatase-1 (FAP-1) and c-Jun NH2-terminal kinase 3 (JNK3) genes: genomic structure and seven polymorphisms of the FAP-1 gene.";
J. Hum. Genet. 47:614-619(2002).
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MEDLINE=22090786; PubMed=12095257; DOI=10.1016/S0022-2836(02)00544-2;

Kozlov G., Banville D., Gehring K., Ekiel

"Solution structure of the PDZ3 domain from cytosolic human

phosphatase hPTP1E complexed with a peptide reveals contribution of
the beta2 beta3 loop to PDZ domain-ligand interactions.";
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                                                                                                  This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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"Solution structure of the PDZ2 domain from human phosphatase hPTP1E and its interactions with C-terminal peptides from the Fas receptor."
Biochemistry 39:2572-2580(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        INTERACTION WITH PLEKHA1 AND PLEKHA2.
PubMed=14516276; DOI=10.1042/BJ20031154;
Kimber W.A., Deak M., Prescott A.R., Ale
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PtdIns(3,4)P2-binding adaptor protein TAPP1.";
Biochem. J. 376:525-535(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  J. Mol. Biol.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=20170882; PubMed=10704206;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Interaction of the protein tyrosine phosphatase PTPL1 with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INTERACTION WITH NGFR.
MEDLINE=20012928; Pubmed=10544233; DOI=10.1016/S0014-5793(99)01324-1;
ween the Swiss Institute of Bioinformat
Buropean Bioinformatics Institute. The
by non-profit institutions as long
ified and this statement is not removed.
                                                                                                                                                                                                             Non-receptor class subfamily.
SIMILARITY: Contains 1 FERM domain.
SIMILARITY: Contains 5 PDZ/DHR domains
                                                                                                                                                                                                                                                                                                                                                                              IsoIde012923-4; Sequence=VSP_007921;
Note=May be due to a competing donnor splice site;
NISSUE SPECIFICITY: Present in most tissues with the exception the liver and skeletal muscle. Most abundant in lung, kidney an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hum. Genet. 47:614-619 (2002).
FUNCTION: Regulates negatively FAS-induced apoptosis and NGFR-mediated pro-apoptotic signaling.
CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = prote
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        its second PDZ domain. Interacts with the C-terminal SVP motif of NGFR through its third PDZ domain. Interacts with the LIM domain of PDLIM4 through its second and fourth PDZ domains. Binds PLEKHAl and PLEKHA2 through its first PDZ domain.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUBUNIT: Interacts with TRIP6 and TNFRSF6
                                                                                                                                                                                                                                                                                                                   SIMILARITY: Belongs to the protein-tyrosine phosphatase family
                                                                                                                                                                                                                                                                                                                                                        fetal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SUBCELLULAR LOCATION: Cytoplasmic ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tyrosine + phosphate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Event=Alternative splicing; Named isoforms=4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             IsoId=012923-3; Sequence=VSP_000497
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                                                                                                                                                                                                                                                                                                                                                        brain.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence=VSP_000496;
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                             There are no restrictions ng as its content is in
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       and for
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Matches
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EMBL; D21209; BAA04750.1; -.
EMBL; D21210; BAA04751.1; -.
EMBL; D21211; BAA04752.1; -.
EMBL; X80289; CAA56563.1; -.
EMBL; X9676; CAA5654.1; -.
EMBL; X34583; AAC41755.1; -.
EMBL; L34583; AAC41755.1; -.
EMBL; BC33610; AAF63474.1; -.
EMBL; BC33610; AAH39610.1; ALT_TERM.
PIR; A54971; A54971.
                                                                                        PROSITE; PS00660;
PROSITE; PS00661;
PROSITE; PS50057;
PROSITE; PS50106;
PROSITE; PS00383;
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Pfam; PP00595; PDZ; 5.
Pfam; PP00102; Y Dhosphatase; 1.
PRINTS; PR00935; BAND41.
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LQ7X; NMR; A=1357-1459.
3PDZ; NMR; A=1361-1456.
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j; IPR00109065; FERM.
b; IPR011009; Kinase_like.
j; IPR001478; PDZ.
c; IPR011036; PH_related.
b; IPR001387; TYE_phosphatase.
j; IPR000242; TYr_PP.
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email to license@isb-sib.ch).
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                                                                           PDZ; 5.
TYR_PHOSPHATASE_1; FALSE_NEG.
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FERM_2; FALSE_NEG
FERM_3; 1.
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SUMMARIES

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ALIGNMENTS

RESULT 1 ABG31974

05-NOV-2002 ABG31974 standard; peptide; 9 AA. WO200244207-A1 Homo sapiens. Human CD45 HLA-binding peptide, huCD45/737. ABG31974; haematopoietic; (first entry) malignant.

Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic;

E, Amrolia PJ;

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

30-NOV-2000; 2000WO-GB004566.

30-NOV-2000; 2000WO-GB004566.

06-JUN-2002.

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
ADJ92680
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        CC antigen-presenting cell contains an expression vector including the CD colynucleotides encoding the CD45 peptides. The activated CTLs are useful CC for killing, and in the manufacture of a medicament for, target cells CC expressing the CD45 peptides in a patient. A T cell receptor (TCR), CC recognising cells expressing the CD45 peptides, is useful for killing CC target cells (cancer cells) in a patient which involves obtaining CTLs CC from the patient, introducing into the CTLs the polynucleotide encoding CC the TCR and then introducing the cells thus produced into the patient who CC has undergone an allogenic stem cell transplantation. Thmour reactive CC TLs have been shown to mediate tumour regression in animals models by CC colony formation. The cancer is leukaemia which expresses the CD45 colony formation as an immunotherapeutic for treating a CC patient with haematopoietic malignancy or to target and kill cells which captes the CD45 polypeptide. The advantage this method provides is that the CTLs destroy the malignant haematopoietic cells but not the cruss the CD45 polypeptide. The sequence presented is the peptide, hucD45/737, CC comprising an HLA-binding peptide of human CD45
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Matches 9
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26-FEB-1991;
10-FEB-1993;
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Identifying a compound that modulates the phosphotyrosine phosphatase activity of a polypeptide by incubating the compound with the polypeptide, which is in pure form, in a membrane preparation or in a whole cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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The invention relates to receptor-type protein tyrosine phosphatase (RPTP) and its corresponding nucleic acid. The invention also relata a method for identifying a compound that modulates the phosphotyros

phosphotyrosine

relates

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dephosphorylated by

polypeptide

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Example;

SEQ ID

NO 5;

52pp;

English.

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RESULT 3
ADD22988
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Best Local S
Matches 9
      The invention relates to an isolated RNA encoding a protein tyrosine phosphatase designated as PTPH1 appearing as ADD22982. Also included is a retroviral vector comprising the RNA. The RNA is useful for treating or preventing a condition in which abnormally high levels of phosphotyrosine occur in a mammalian cell (which involves introducing into the mammalian cell and agent which comprises DNA or RNA encoding all or a portion of a PTPH1, under conditions sufficient to express PTPH1 where the polypeptide can catalyse dephosphorylation of tyrosyl residues that are phosphorylated through action of a protein tyrosine kinase. The RNA is also useful for reversing a matty phosphorylation catalysed by a protein tyrosine kinase. The DNA or RNA is delivered via a recombinant retrovirus or a recombinant vaccinia virus. At least one tyrosyl residue that is
                                                                                                                                                                                                                                                                                                                                                                                            16-AUG-1993;
04-DEC-1996;
22-JAN-1999;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; enzyme; protein tyrosine phosphatase; PTPH1; cytostatic; gene therapy; retroviral vector; phosphotyrosine; pp60(V-src); breast cancer; leukaemia; CD45-D1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 phosphatase activity. The method is useful for identifying a compound that modulates the phosphotyrosine phosphatase activity of a polypeptide and for identifying susceptibility to cancer, diabetes or other diseases associated with alterations in cellular phosphotyrosine metabolism. The present sequence is human leukocyte common antigen (LCA) phosphatase domain (PD) 1. This sequence is used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                       14-MAR-1990;
01-MAR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADD22988 standard; protein; 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                  Disclosure; Fig 4B; 12pp;
                                                                                                                                                                                                                                                               New isolated
                                                                                                                                                                                                                                                                                           WPI; 2003-810871/76
                                                                                                                                                                                                                                                                                                                        Tonks
                                                                                                                                                                                                                                                                                                                                                                                03-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  12-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               19-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           US2003113294-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADD22988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     invention.
                                                                                                                                                                                                                                                PTPH1
                                                                                                                                                                                                                                                                                                                                                   (COLD-) COLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sapiens.
                                                                                                                                                                                                                                                useful
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 MIWEQKATV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          235
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MIWEQKATV 71
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                             RNA encoding for treating
                                                                                                                                                                                                                                                                                                                                                   SPRING HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                2001US-00848294
                                                                                                                                                                                                                                                                                                                                                                                            93US-00107420.
96US-00759536.
99US-00235251.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            tyrosine phosphatase,
                                                                                                                                                                                                                                                                                                                                                                                                                                       90US-00494036.
91US-00663579.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                                                                                                                                                                                                             protein tyrosine phosphatase designated as malignancies such as breast cancer, leukemia.
                                                                                                                                                                                                                   English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 48; DE
Pred. No. 1.7
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   B
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RESULT 5
AAG78272
ID AAG7
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AC AAG7
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                                                                                    Query Match
Best Local S
Matches 9
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Best Local S
Matches 9
                                                                                                                               The present invention provides substrate trapping mutant protein tyrosine phosphatases (PTPs). They can be used to reduce the activity of tyrosine phosphorylated proteins and to screen for modulators capable of altering the binding of protein tyrosine phosphatases to their substrate. These may be used in disease diagnosis and treatment
AAG78272;
                                                                                                                                                                                           New substrate trapping mutant protein tyrosine phosphatases (PTP) in which the wild type PTP catalytic domain invariant aspartate is replaced with an unphosphorylated amino acid, useful in gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     aberrantly phosphorylated by pp60(V-src). The RNA is useful for treating or preventing malignancies such as breast cancer and leukaemia. The present sequence is a PTP similar to PTPH1.
                                                                                                                  Sequence 253 AA;
                                                                                                                                                                                                                                                                          03-JUN-1999;
16-JUN-1999;
              AAG78272 standard; protein; 309
                                                                                                                                                                              Disclosure; Fig 1; 109pp; English.
                                                                                                                                                                                                                                            Tonks NK,
                                                                                                                                                                                                                                                                                                 24-MAY-2000; 2000WO-US014211.
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                                                                                                                                                                                                                                                                                                                                               Mus sp
                                                                                                                                                                                                                                                                                                                                                                       Protein
                                                                                                                                                                                                                                                                                                                                                                                     Murine protein tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                     21-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                    AAB59374;
                                                                                                                                                                                                                                                                                                                                                                                                                                  AAB59374 standard; protein;
                                                                                                                                                                                                                                                            (COLD-) COLD SPRING
                                                                                                                                                                                                                                                                                                                                                               substrate trapping
                                                                                                                                                                                                                             2001-080598/09.
                                                      74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          63 MIWEQKATV 71
                                                                  1 MIWEQKATV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       l Similarity
9; Conserva
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 MIWEQKATV
                                                                                    Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                     tyrosine phosphatase;
                                                      MIWEOKATV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       248 AA;
                                                                                                                                                                                                                                           Zhang
                                                                                   100.0%; ilarity 100.0%; Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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99US-00334575.
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                                                                                                                                                                                                                                                            HARBOR LAB
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                                                                                                                                                                                                                                                                                                                                                                                                                                   253 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                          Score 48; DB
Pred. No. 1.8;
                                                                                                                                                                                                                                                                                                                                                                     human; mouse;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 48;
Pred. No.
               æ
                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                     #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       BB
                                                                                                 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      7;
                                                                                                                                                                                                                                                                                                                                                                      fruit
                                                                                    0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                 Length 253;
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                                                                                                                                                                                                                                                                                                                                                                      fly;
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                                                                                                                                                                                                                                                                                                                                                                      PTP;
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RESULT 6
AAM23689
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Best Local S
Matches 9
                                                                                                                                                 Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse; tomato; monkey; dog; sea urchin; expressed sequence tag; EST; diagnostics; forensic test; gene mapping; genetic disorder; biodiv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to identifying agents which alter the interaction between a protein tyrosine phosphatase (PTP) and a tyrosine tyrosine phosphorylated polypeptide using fluorescence energy signals. The method are useful for performing screening assay to identify agents that alter PTP binding to and PTP-mediated catalytic dephosphorylation of phosphotyrosine peptide substrates. The present sequence is that of a catatlytic domain of a PTP for comparison with human PTP1B (AAG78262)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Screening assays to identify agents that alter protein tyrosine phosphatase (PTP) binding to, and PTP-mediated catalytic dephosphorylation of phosphotyrosine peptide substrates.
02-AUG-2001.
                                                                                                                                                                                                                                                   Human
                                                                                                                                                                                                                                                                                                12-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                      AAM23689 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Fig 1; 79pp; English.
                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2001-570570/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Flint AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 14-FEB-2000; 2000US-0181769P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  yeast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PTP; protein tyrosine phosphatase; tyrosine phosphorylated polypeptide; dephosphorylation; phosphotyrosine; human; PTP1B; mouse; fruit fly;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mouse CD45-D1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-FEB-2001; 2001WO-US005180
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                                                                                                                                therapy; nutrition.
                                                                                                                                                                                                                                                EST encoded protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      74
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1 MIWEQKATV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
Similarity 100.0%;
9; Conservation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CEPTYR INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      309 AA;
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                                                                                                                                                                                                                                                                                           (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                      protein;
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                                                                                                                                                                                                                                                SEQ ID NO: 1214.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 48; DB 4; Pred. No. 2.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 309;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                        biodiversity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ٥,
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25-JAN-2001; 2001WO-US002687

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RRESULT 7
ARBUD7333
ID ABUU7333
ID ABUU7333
ID ABUU7
XX ABU0
XX ABU0
DT 29-J
XX Trar
KW Trar
KW Proto
KW rece
KW rece
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XX Home
XX Home
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Best Local S
Matches 9
                                                                                                                  28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      row, pry, namster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is protein of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 641 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               25-JAN-2000; 2000US-00491404.
17-JUL-2000; 2000US-00617746.
03-AUG-2000; 2000US-00631451.
15-SEP-2000; 2000US-00663870.
                           Chicz RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABU07333 standard; protein; 641 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 20;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Isolated polypeptide for treatment of diseases, antibodies and research use.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB;
                                                                                                                                                                                                                                                                                                                                        10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                        WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABU07333
                                                                                                                                                                                                                                                                                           28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention provides the protein and coding
                                                                        (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HYSE-) HYSEQ INC.
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DB; AAH98348.
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(, Drmanac RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                578
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Page 875-876; 1275pp;
                        Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sarcoma; melanoma; lymphoma; leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Zhou
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             tag (EPT) #2034.
                           Urban
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J, W
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Werhman
                           RG;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ,XB
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nan T;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              otein and coding sequences of novel including human, dog, cat, horse, east, bacteria, fruit fly, sea
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                4.8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>.</u>.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MEC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human trissue for translational profiling. Note: This sequence does not appear in the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
Sequence 641 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention describes a purified polypeptide, which fragment of a kinase, phosphatase, protease, protease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-040607/03
                                                 ftp.wipo.int/pub/published_pct_sequences
                                                                          specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NO 2034; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            for
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                              Matches
                                      Best Local
                                            Query Match
578 MIWEQKATV 586
              1 MIWEQKATV
                              Similarity
9; Conser
                              Conservative
              9
                                     100.0%;
                              0;
                                     Score 48; DB
Pred. No. 4.8;
                              Mismatches
                                            6,
                              0,
                                           Length 641;
                              Indels
                              0,
                              Gaps
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0,

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RESULT 8
AAM39262
AAM39262 standard; protein; 664 AA.
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Human 22-OCT-2001

polypeptide

SEQ ID NO 2407.

(first entry)

Human; nootropic; immunosuppressant; cytostatic; gene therapy; cance: peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation; cancer;

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23-DEC-1999;
21-JAN-2000;
25-APR-2000;
20-JUN-2000;
19-JUL-2000;
    19-OCT-2000;
29-NOV-2000;
                03-AUG-2000;
14-SEP-2000;
                                                               26-DEC-2000;
                                                                                      WO200153312-A1
                                                                                                  Homo sapiens.
              2000US-00488725.
2000US-00552317.
2000US-00598042.
2000US-00620312.
2000US-00620312.
2000US-00653450.
2000US-00662191.
                                                               2000WO-US034263
    2000US-
2000US-
                                                   99US-00471275
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RESULT 9
ABU07334
PA XXX
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ce encoded polypeptides (AAM38642-AAM42213) with nootropic,
communosuppressant and cytostatic activity. The polynuclectides are useful
communosuppressant and cytostatic activity. The polynuclectide or polynucleotide
communosuppressant and cytostatic activity. The polynucleotide
communosuppressant and cytostatic activity. The polynucleotide
communosuppressant and containing a polypeptide or polynucleotide
communosuppressant and suppossition containing a polypeptide or polynucleotide
communosuppressant and contrainervous injuries, peripheral nervous
communosuppressant and central nervous system disease, such as
communosuppressant and contrainervous system disease, such as
communosuppressant and contrainervous system disease, amyotrophic
communosuppressant and system suppressation,
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Best Local (
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                         28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-029544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336780P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                         Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                            28-MAR-2002; 2002WO-US009671.
                                                                                                                                                         10-OCT-2002
                                                                                                                                                                                     WO200278524-A2
                                                                                                                                                                                                                                                adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                       Human
                                                                                                                                                                                                                                                                                                                                                                  29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                          ABU07334 standard;
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Wang
Zhou
(ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Novel nucleic acids and polypeptides, useful as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2001-442253/47
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 4; SEQ ID NO 2407; 10078pp; English
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                                                                                                                                                                                                                                                                                                                                     expressed
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Goodrich
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MIWEOKATV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   664 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                  protein tag
                                                                                                                                                                                                                                                sarcoma;
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Wehrman T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ¤
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                                                                                                                                                                                                                                                                                                                                                                                                                         protein;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     s to human nucleic acids (AAI57798-AAI61369) and (AAM38642-AAM42213) with nootropic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Drmanac
                                                                                                                                                                                                                                                melanoma;
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                                                                                                                                                                                                                                                                                                                                     (EPT) #2035.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 48; DB Pred. No. 5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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                                                                                                                                                                                                                                              lymphoma;
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Xue
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                                                                                                                                                                                                                                                leukaemia
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Yang Y,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 664;
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Zhang J,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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Zhao QA;
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ABO84454
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      fragment of a kinase, phosphatase, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The crowdeness of transporter composition for eliciting in a commandation of the purified as an immunogenic composition for eliciting in a commandation of the purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed complymediate are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at fig.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                         14-FEB-2003;
14-MAR-2003;
15-APR-2003;
13-JUN-2003;
15-SEP-2003;
15-DEC-2003;
  Morris DW,
                                                                                                                                                                                                                                                                                                            02-SEP-2004.
                                                                                                                                                                                                                                                                                                                                                            WO2004074320-A2
                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 664 AA;
                                                                                                                                                                                                                                                             17-FEB-2004; 2004WO-US004730.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human cancer-associated protein HP13-011.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABO84454 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                            (SAGR-) SAGRES DISCOVERY INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes a purified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          treating cancer, e.g. colon cancer, gastric cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Chicz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      leukemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MIWEQKATV
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                                                                                       2003US-00367094.
2003US-0038838.
2003US-00417375.
2003US-00461862.
2003US-00663431.
2003US-00737318.
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Morris DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein;
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100.0%; F
htive 0;
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Malandro
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IJ
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RESULT 11
ADQ39377
ID ADQ39
XX ADQ39
XX ADQ39
XX ADQ39
XX Humar
XX Myoca
KW Myoca
KW Cardi
XX Cardi
XX Homo
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-cassociated proteins. Also included are an expression vector comprising the above recombinant nucleic acid cited above, a host cell comprising the above a cancer-associated (CA) nucleic acid comprising at least no contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least and isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 cc polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above cc monoclonal antibody, a pharmaceutical composition comprising the above cc antibody and a pharmaceutical excipient, a kit for detecting cancer cc individual, a method for inhibiting growth of cancer cells in an cc individual, an electronic library comprising the above polypeptide (or their fragments), methods of screening cf polynucleotide or polypeptide (or their fragments), methods of screening cf maticancer activity or for a bioactive agent capable of modulating the activity of a CA protein (CAP), methods for detecting cancer cells in an cc associated with expression of a polypeptide in a test cell sample, a composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and cleukaemia. These may also be used in screening for agents that modulate cc cancer. The present as a human CAP protein sequence. Note: The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches S
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N-PSDB; ABD32625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer. The present sequence is a human CAP protein sequence. Note: sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     claim 18; seqid 145; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                  WO2004058052-A2
                                                                           15-JUL-2004
                                                                                                                                                                                                                                                                                                                           Myocardial infarction; detection; single nucleotide polymorphism; SNP,
                                                                                                                                                                                                                                                                                                                                                                                                   Human myocardial infarction-associated gene derived protein, SEQ ID 1040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADQ39377 standard; protein; 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                             gene
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22-DEC-2003; 2003WO-US040978.

cell-cycle

proliferation; cancer;
disease; allergy; metabolic disorder;

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RESULT 12
ADL16236
ID ADL16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Considering sequences given in the SNP is correlated with an occardial risk for myocardial infarction in the individual. The invention occardiance is an isolated mucleic acid molecule comprising at least the specification or its complement and encoding any one of the amino occard sequences given in the specification; an isolated polypeptide occard sequences given in the specification; an isolated polypeptide occardiance; an amino acid sequence given in the specification; an antibody that specification and which is between about 16 and 1000 nucleotides in the specification and which is between about 16 and 1000 nucleotides in occardiance; a buffer and an enzyme; a method of detecting an SNP given in the polypucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the composition of intentifying an agent useful in treating or preventing occardial infarction. The novel detection method has cardiant activity. The nucleic acid dentifying an individual who has an increased or decreased risk for developing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from the first domain and the sequence has come from the specification. The sequence has come from the specification.
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Best Local S
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                       cytostatic; immunosuppressive; antiallergic;
protein tyrosine phosphatase; reversible oxidation; dephosphorylation;
inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorde:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 10; SEQ ID NO 1040; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cargill
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10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
                                                                                                                                                                                        Rat protein tyrosine phosphatase
                                                                                                                                                                                                                                                            06-MAY-2004
                                                                                                                                                                                                                                                                                                                        ADL16236;
                                                                                                                                                                                                                                                                                                                                                                                        ADL16236 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        an electronic sequence listing downloaded
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      393
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MIWEQKATV 9
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               960 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Iakoubova
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7.3;
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RESULT 13
ABU05246
ID ABU052
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AC ABU05
XY
AC ABU05
XY
UT 29-JI
XX
Trani
KW Trani
KW Trani
KW Trecej
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KW majo:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CC The invention relates to a method for identifying a protein tyrosine CC phosphatase (PTP) that is reversibly oxidized in a cell by: (i) CC subjecting a sample, including a cell that contains at least one PTP, to CC conditions that cause reversible oxidation of PTP; (ii) isolating PTP CC conditions that cause reversible oxidation of PTP; (ii) isolating PTP CC conditions; and (iii) determining, under reducing conditions, the level conditions of PTP; and (iii) determining, under reducing conditions, the level conditions of PTP; and (iii) determining, under reducing conditions. The details condephosphorylation, caused by PTP, of a labelled substrate (III), where conditions the level conditions of these activities are given. The method is used to identify confits that it is not identify conditions activities are given. The method is used to identify conditions the pTP, also to identify agents that: (a) reversibly conditions on the conditions are potentially useful, in human or veterinary conditions, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle communosuppressed states; metabolic disorders and cell-cycle.
                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
                                                Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cycoskeletal protein; receptor; transcription factor; cancer; MEC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
 Homo sapiens
                                                                                                                                          Human expressed protein tag
                                                                                                                                                                             29-JAN-2003
                                                                                                                                                                                                                                                ABU05246 standard; protein; 1114 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         abnormalities. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB;
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12-FEB-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                            Local Similarity
nes 9; Conserv
                                                                                                                                                                                                                                                                                                                                           397
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    962 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2002US-0356810P.
2003US-00366547.
                                                                                                                                                                               (first entry)
                                   sarcoma; melanoma; lymphoma; leukaemia
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                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               85; 238pp; English.
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                                                                                                                                            (EPT) #1912.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                              Score 48; DB Pred. No. 7.3;
                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                               7;
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                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 962;
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                                                                                                         phosphatase,
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                                                                                                                                                                                                                                                                                                                                                                                           Best
                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
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21-MAY-2001;
08-AUG-2001;
                                             Translational profiling; expressed protein tag; EPT; kin protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer MfC; major histocompatability complex; myeloma; colon cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI;
Homo sapiens
                                adenocarcinoma;
                                                                                                                                Human
                                                                                                                                                               29-JAN-2003
                                                                                                                                                                                                                             ABU05239 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example
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04-DEC-2001;
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                                                                                                                             expressed protein tag
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ; 2001US-0279495P.
; 2001US-023544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                                                                                                                             (first entry)
                                sarcoma; melanoma; lymphoma; leukaemia.
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                                                                                                                                                                                                                                                                                                           555
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                                                                                                                                                                                                                             protein; 1114 AA
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Pred. No.
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                                                                                                                                #1905
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                                                                                                                                                                                                                                                                                                                                                                                         8.5;
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                                                                                              EPT; kinase; phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                         Length 1114;
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                                                                             protein;
                                             gastric cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fragment of a kinase, phosphatase, protease inhibitor, cytoskeletal protein, receptor or transcription factor. The transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypeptides and polypeptides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 9
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                        Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                              Human expressed protein tag (EPT) #1906.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor.
                                                                                                                                                                                                   29-JAN-2003
                                                                                                                                                                                                                                                                                ABU05240 standard; protein; 1143
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1114 AA;
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                                       melanoma; lymphoma; leukaemia
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Pred. No.
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Best Local
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21-MAY-2001;
08-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                    Translational profiling; expressed protein tag; EPT; kina protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer;
                                                                                                                   Human expressed protein tag
                                                                                                                                                                                                              ABU05245
                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                        expressed protein tag (BPT) isolated from human tissue for traprofiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           01-OCT-2001;
04-DEC-2001;
                                                                                                                                                  29-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                 Similarity
9; Conserve
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                                                                                                                                                                                                            standard; protein; 1143
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; 2001US-029544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                  (first entry)
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                                                                                                                    (EPT) #1911.
                                                                                                                                                                                                                                                                                                                                                                 Score 48; DB 6; Length 1143; Pred. No. 8.7;
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                                                                   tag; EPT; kinase; phosphatase;
cytoskeletal protein;
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adenocarcinoma;

sarcoma; melanoma; lymphoma; leukaemia.

gastric cancer;

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ADL16232
ID ADL1
XX
AC ADL1
XX
DT 06-P
XX
COS Hump
XX
KW Cyt.
KW pro
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OS Hon
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                                                                                                                                                                                                                                                         RESULT 17
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                             cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         expressed protein tag (EPT) isolated from human tissue for translationa profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO
    Homo sapiens
                                                                                                                            Human protein tyrosine phosphatase #27.
                                                                                                                                                             06-MAY-2004
                                                                                                                                                                                                                      ADL16232 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
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                                                                                                                                                                                                                                                                                                                                                                  Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                1143
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; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                AA;
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                                                                                                                                                                                                                                                                                                                                                                               Score 48; DB
Pred. No. 8.7;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          for translational
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RESULT 18
ADQ18845
ID ADQ18845
AC ADQ18
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Matches 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, conditions that cause reversible oxidation of PTP, (ii) isolating PTP.
                                                                                                                     WO2004048938-A2
                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                   Human soft tissue sarcoma-upregulated protein - SEQ ID 1664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1143
                                                                                                                                                                                                                                    soft tissue sarcoma; cytostatic; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ADQ18845 standard; protein; 1143 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 81; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying reversibly oxidized protein tyrosine phosphatase, use screening for specific modulators, potential agents for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-712572/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tonks NK, Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (CEPT-)
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COLD SPRING HARBOR LAB
CEPTYR INC.
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                                                                                                                                                                                                                                                                                                                                                               (first
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                                                                                                                                                                                                                                                                                                                                                               entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; Score 48;
100.0%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cool DE
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8.7;
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                                                                                                                                                                                                                                    vaccine; screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Length 1143;
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26-NOV-2003; 2003WO-US038193.

10-JUN-2004

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AAM41048
ID AAM4
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Best Local S
Matches 9
23-DEC-1999;
21-JAN-2000;
25-APR-2000;
20-JUN-2000;
19-JUL-2000;
13-AUG-2000;
14-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression in the first soft tissue samples where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                     Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; chemokinetic; thrombolytic; drug screening; arthritio.
                                                                                                                                                                                                                                                                                                                                                22-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                   AAM41048 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-441208/41.
                                                                                                             26-DEC-2000;
                                                                                                                                        26-JUL-2001
                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                       Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
                                                                                                                                                                                                                                                                                                                     Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                      576
                                                                                                                                                                                                                                                                                                                   polypeptide SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MIWEQKATV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity 9; Conserv
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; 2000US-00488725.
; 2000US-00552317.
; 2000US-00598042.
; 2000US-00620312.
; 2000US-00653450.
; 2000US-00662191.
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                                                                                                            2000WO-US034263.
                                                                                                                                                                                                                                                                                                                                              (first entry)
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                                                                                 99US-00471275.
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                                                                                                                                                                                                                                                                                                                     5979
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in treating soft tissue
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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RESULT 20
ABU05242
ID ABU052
XX ABU052
XX ABU05
XX ABU05
XX Trans
XX Trans
XX Trans
XX Trace

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to human nucleic acids (AAI57798-AAI61369) and the CC encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide con the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, hammostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and constitutions. Note: The sequence data for this patent did not form
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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Best Local
28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
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Wang
                                                                                                                                                                                                                                                                                                                                                    Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human expressed protein tag
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29-NOV-2000; 2000US-00727344.
                                                                                                                                                         28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                         WO200278524-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ABU05242;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   part of the printed specification
                                                                                                                                                                                                                                                                                                          Homo
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Goodrich
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MIWEQKATV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1149
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  2001US-0279495P.
2001US-0292544P.
2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (first entry)
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Wehrman T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      589
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Xu C,
c RT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 48; DB
Pred. No. 8.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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Xue AJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     4.
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Yang Y,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   polynucleotide
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J, Zhao
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RESULT 21
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Best Local S
Matches 9
                         14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human rich.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed protein tag (BPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO a
                                                                                                                                                                                                                                 Mus musculus
                                                                                                                                                                                                                                                                                                          Mouse cancer-associated protein MP13-011.1.
                                                                                                                                                                                                                                                                                                                                          18-NOV-2004
                                                                                                                                     17-FEB-2004; 2004WO-US004730
                                                                                                                                                                                                 WO2004074320-A2
                                                                                                                                                                                                                                                              lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                       AB084453
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1149 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
(SAGR-) SAGRES DISCOVERY INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-FEB-2002; 2002US-0358985P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  581 MIWEQKATV 589
                                                                                                                                                                                                                                                                             cancer-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 MIWEQKATV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            l Similarity
9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                    standard; protein; 1157
                                                                                                                                                                                                                                                              CAP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 1908; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ጀ
                                                                                                                                                                                                                                                                             protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                      B
                                                                                                                                                                                                                                                                           cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8.7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 6;
                                                                                                                                                                                                                                                                             cancer; leukaemia,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1149;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
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RESULT 22 ADR39747 ID ADR39

ADR39747

standard;

protein; 1192

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592

MIWEQKATV 600

1 MIWEQKATV

9

Matches Query Match Best Local

9 Similarity

Conservative

0

100.0%;

Score 48; Pred. No. Mismatches

8.8;

8 0;

Length 1157;

Indels

0,

Gaps

0

SXEXEXEXEXEXEX S

18-NOV-2004

(first entry)

atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy; developmental disorder; Hypothyroidism; Cushing's syndrome; infection;

antiarteriosclerotic; anticonvalsant; nootropic; neuroprotective cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's d

human; kinase and phosphatase protein; KPP; enzyme; cytostatic;

neuroprotective;

Human kinase and phosphatase KPP-20 protein

SEQ ID

NO:20

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monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer or for detecting the presence or absence of cancer cells in an individual, a method for inhibiting growth of cancer cells in an individual, an electronic library comprising the above polymucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bloactive agent capable of modulating the activity or for a bloactive agent capable of modulating the activity of a CA protein (CAP), methods for detecting cancer associated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprision recombinant nucleic acid or expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above mentioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
Sequence 1157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  disclosure; seqid 142; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Morris DW,
                                             ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2004-652914/63.
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  AΑ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Malandro
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                                                                                                                                                                                                             RESULT 23
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                              antiinflammatory and thyromimetic activities, and can be used in gene therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polymucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-045844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present sequence represents the human kinase and phosphatase prote (KPP), designated KPP-20. The human KPP sequences from the present invention have cytostatic, antiarteriosclerotic, anticonvulsant, nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antiinflammatory and thyromimetic activities, and can be used in gene
                 Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human.
                                                                     Human myocardial infarction-associated gene derived protein, SEQ ID 1041
                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1192 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expres
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004074453-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      KPP-20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 1; SEQ ID NO 20; 299pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Ramkumar J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2004; 2004WO-US005092
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               02-SEP-2004
                                                                                                       18-NOV-2004
                                                                                                                                         ADQ39378
                                                                                                                                                                           ADQ39378 standard; protein; 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jackson
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2004-635568/61.
                                                                                                                                                                                                                                                               625
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                                                                                                                                                                                                                                                                                                                               Similarity 9; Conserv
                                                                                                                                                                                                                                                                                               1 MIWEQKATV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       AA,
                                                                                                                                                                                                                                                               MIWEOKATV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 , Marquis JP, Swarnakar A, Chawla N
Lee SY, Hafalia AJA, Richardson TW,
, Yang J, Gorvad AE;
                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             iseases or conditions associated with aberrant KPP expression acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                       (first entry)
                                                                                                                                                                                                                                                               633
                                                                                                                                                                                                                                                                                                                               100.0%; Score 48; DI
100.0%; Pred. No. 9.:
tive 0; Mismatches
                                                                                                                                                                           A
                                                                                                                                                                                                                                                                                                                                               9.1;
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                                                                                                                                                                                                                                                                                                                                                                 DB 8; Length 1192;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tran
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                                                                                                                                                                                                                                                                                                                                 Gaps
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RESULT 24 ADM67187

ADM67187 standard;

protein; 1256

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ADM67187;

03-JUN-2004

(first entry)

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altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least secontiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specificatly binds to the polypeptide or its antigen-binding that specification and which is between about 16 and 1000 nucleotides in fergith; a kit for detecting an SNP in a nucleic acid, comprising the polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a mucleic acid molecule; a method of detecting an SNP in a method of detecting an SNP in a method of detecting an and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity.
                                                                                                                              Matches
                                                                                                                                                         Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-DEC-2002;
10-MAR-2003;
30-APR-2003;
23-SEP-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from
                                                                                                                                                                                                                                                      Sequence 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; SEQ ID NO 1041; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2004058052-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                     an electronic sequence listing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2004-533949/51
652
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                                                                                                                                                         Similarity
MIWEQKATV
                                                           MIWEQKATV
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2003US-0453135P.
2003US-0466412P.
2003US-0504955P.
                                                                                                                              Conservative
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660
                                                               9
                                                                                                                                                         100.0%;
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                                                                                                                              0
                                                                                                                           Score 48; DB 8
Pred. No. 9.3;
0; Mismatches
                                                                                                                                                                                                                                                                                                                     downloaded from the
                                                                                                                                                                                       80
                                                                                                                              0
                                                                                                                                                                                       Length 1219;
                                                                                                                                                                                                                                                                                                                            WIPO
                                                                                                                              <u>,</u>
                                                                                                                              Gaps
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RESULT 25
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                                                                                                                                                                                                                                                                                                                                                                                                                                             This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti co-obesity pharmaceutical compositions. Specifically, it refers to a high combility group I-C protein (RMGI-C) that is associated with obesity and combility group I-C protein (RMGI-C) that is associated with obesity and combility and combility. These compositions exhibit anorectic, antidabetes or obsetty. These compositions exhibit anorectic, antidabetes and the analysis and combility and combility and combility and combility and combility. These compositions exhibit anorectic, antidabetes and treat diabetes or obsetty. These compositions exhibit anorectic, antidabetes and combilities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
transplant rejection;
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-143846/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human adipocyte specific PTPase receptor type C protein SeqID 541.
                                  Protein encoding referenece mRNA sequence #51.
                                                                              12-AUG-2004
                                                                                                                   ADP12966
                                                                                                                                                      ADP12966 standard; protein; 1256 AA
                                                                                                                                                                                                                                                          689
                                                                                                                                                                                                                                                                                               ب
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  adipocyte specific; adipose tissue; anti-obesity;
                                                                                                                                                                                                                                                                                                                                    Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADM66908.
                                                                                                                                                                                                                                                        MIWEQKATV 697
                                                                                                                                                                                                                                                                                           MIWEQKATV 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 541; 91pp; English.
                                                                                                                                                                                                                                                                                                                                  100.0%; Score 48; DB 8; Length 1256; llarity 100.0%; Pred. No. 9.6; Conservative 0; Mismatches 0; Indels
                                                                            (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                  A,
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immune system; rheumatoid arthritis; lupus;
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RESULT 26
ADQ39376
ID ADQ39
XX ADQ39
XX ADQ39
XX IB-NC
XX Human
XX Myoca
KW Myoca
KW Cardi
XX Cardi
XX Homo
XX
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, respection or mechanical organ replacement rejection, in an individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered expression in renal transplantation and expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
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                                                     15-JUL-2004
                                                                                                          WO2004058052-A2
                                                                                                                                                                                                                  cardiant; gene
                                                                                                                                                                                                                                              Myocardial infarction;
                                                                                                                                                                                                                                                                                              Human myocardial infarction-associated gene derived
                                                                                                                                                                                                                                                                                                                                                    18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                      ADQ39376;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADQ39376 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-400724/37.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Wohlgemuth J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24-APR-2002;
20-DEC-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           21-MAY-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   inflammatory bowel disease; multiple sclerosis;
                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present invention relates to diagnosing or monitoring transplant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (EXPR-) EXPRESSION DIAGNOSTICS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  689
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MIWEOKATV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2002US-00131831
2002US-00325899
                                                                                                                                                                                                               therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ξŢ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  697
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
                                                                                                                                                                                                                                            detection; single nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Woodward R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Ly N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    9.6;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Prentice
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 1256;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                            polymorphism; SNP;
                                                                                                                                                                                                                                                                                                 protein,
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                                                                                                                                                                                                                                                                                                    SEQ ID 1039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               3
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22-DEC-2003; 2003WO-US040978

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RESULT 27
ADQ39379
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel method for identifying an individual who CC chas an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's the specification an isolated nucleic acid molecule comprising at least CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding CC that specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polymucleotide, a buffer and an enzyme; a method of detecting an SNP pin a nucleic acid molecule; a method of detection a variant polypeptide; and cC method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or isk for developing myocardial infarction and for preparing a cc composition for treating or preventing myocardial infarction. This sequence was not shown in the specification. The sequence has come from CC sequence was not shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 9
                                                                Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1258 AA;
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-046612P.
23-SEP-2003; 2003US-0504955P.
                                                  cardiant; gene therapy; human
                                                                                                                                           18-NOV-2004
                                                                                                                                                                              ADQ39379
                                                                                                                                                                                                             ADQ39379 standard; protein; 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                      691
                                                                                                    myocardial infarction-associated gene derived
                                                                                                                                                                                                                                                                                                                               1 MIWEQKATV 9
                                                                                                                                                                                                                                                                                                                                                                         l Similarity
9; Conserv
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                                                                                                                                                                                                                                                                                                     MIWEQKATV
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                                                                                                                                                                                                                                                                                                                                                                           Conservative
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                                                                                                                                         (first entry)
                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
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                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                            Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                            9.6;
                                                                                                                                                                                                                                                                                                                                                                                                           DB 8; Length 1258;
                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                    protein, SEQ ID 1042
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in nucleic acid molecule; a method of detecting a variant polypeptide; and method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the
                                                      06-MAY-2004 (first entry)
                                                                                                ADL16234;
                                                                                                                                      ADL16234 standard; protein; 1291
                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 10; SEQ ID NO 1042; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                            sequence was not shown
an electronic sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N-PSDB; ADQ38551
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the individual's nucleic acids.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                        700
                                                                                                                                                                                                                                                                              1 MIWEQKATV
                                                                                                                                                                                                                                                                                                              .100.0%;
Similarity 100.0%;
9; Conservative 0
                                                                                                                                                                                                                                           MIWEQKATV 708
                                                                                                                                                                                                                                                                                                                                                                                                                                       gene containing one or more SNP's of the invention. Note: That some in the specification. The sequence has come from nic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                    AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            relates to a novel
                                                                                                                                                                                                                                                                                9
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                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                      Score 48; DB Pred. No. 9.7; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       method for identifying an individual who
                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                            Length 1267;
                                                                                                                                                                                                                                                                                                                        Indels
                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                    Gaps
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Mouse protein tyrosine phosphatase #7.

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RESULT 29
ABU05243
ID ABU05
XX
AC ABU05
XX
AC ABU05
XX
DT 29-JA
XX
DT 29-JA
XX
XX
Trans
KW Prote
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                 맑
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a method for identifying a protein tyrosine CC phosphatase (PTP) that is reversibly oxidized in a cell by: (i) phosphatase (PTP) that is reversibly oxidized in a cell by: (i) sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where CC dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that; (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); unest vs. host disease; autoimmune diseases; altergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Query Match
Best Local :
Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein;
                                                                                                 Human expressed protein tag
                                                                                                                                                                       29-JAN-2003
                                                                                                                                                                                                                                                                                                    ABU05243
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 83; 238pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               screening
cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tonks NK, Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-FEB-2003; 2003WO-EP001446.
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                                                                                                    (EPT) #1909.
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Pred. No. 9.
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Translational profiling; expressed protein protease; protease inhibitor; transporter;

tag; EPT; kir cytoskeletal

kinase;

phosphatase;

Human expressed protein tag

(EPT) #1907.

(first

entry)

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RESULT 30
ABU05241
ID ABU052
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AC ABU05
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AC ABU05
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TX
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Trans
KW Trans
KW prote
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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Pred. No. 10;
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                                                                                                                                                                                               RESULT 31
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                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310601P.
01-OCT-2001; 2001US-0336730P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
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Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein;
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                                                   Human expressed protein tag (EPT) #1910.
                                                                                          29-JAN-2003
                                                                                                                                                              ABU05244 standard;
                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1304 AA;
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nes 9; Conserv
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                                                                                          (first entry)
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                                                                                                                                                            protein; 1304 AA
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melanoma; lymphoma; leukaemia.
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cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation;

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transporter, cytoskeletal protein, receptor or transcription factor. The collegeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified colypeptide. The purified polypeptide, or the antibody that binds to this colypeptide, is useful for treating cancer. The polypeptide is also consetul for identifying compounds that binds to a naturally processed class I or class II Mfc-binding polypeptide. The polypeptides and colypeptides are particularly useful for treating or preventing compounds colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, cymphoma or leukaemia. These are also useful for screening agents for creating the above mentioned diseases. This sequence represents an compressed protein tag (EPT) isolated from human tissue for translational constitution but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
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Best Local
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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                                                                   Human protein tyrosine phosphatase #26.
                                                                                                                     06-MAY-2004
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                                                                                                                                                                                                                    ADL16230 standard;
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; 2001US-029544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                  protein; 1304 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 1304;
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RESULT 33
ADP65158
ID ADP6
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AC ADDP6
XX
AC ADDP6
DT 12-4
XX
DE Huma
XX
KW autc
KW artei
KW aimmum
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                                                                                                                                                                                                                                                                                                                                                                                                                                       conditions that cause reversible oxidation of PTP; (ii) isolating PTP conditions that cause reversible oxidation of PTP; (ii) isolating PTP canaerobically, in presence of a sulfhydryl-reactive agent (II) that cause reversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where conditions the conditions of the sectivities are given. The method is used to identify creversibly oxidized PTP, also to identify agents that: (a) reversibly condify such PTP; or (b) alter inducible signalling patchways in which PTP care involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); concert us, host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                            Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           screening cancer or
                           autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induced; immunosuppressive
             rheumatoid arthritis; colla antiarthritic; osteopathic;
                                                                                                              12-AUG-2004
                                                                                                                                                                              ADP65158 standard;
                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WO2003068984-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-FEB-2002;
12-FEB-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               21-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cell-cycle abnormality; enzyme.
                                                                                                                                                                                                                                                                                                                                              Local Similarity
                                                                                                                                                                                                                                                            737
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DB; ADL16229.
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                                                                                                                                                                                                                                                              MIWEQKATV 745
                                                                                                                                                                                                                                                                                            MIWEQKATV 9
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                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 79; 238pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2002US-0356810P.
2003US-00366547.
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                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                              A,
                                                                            tyrosine phosphatase,
                                                                                                                                                                            protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                              100.0%;
        gen-induced; immunosuppressive; antirheumatic; antigout; antiinflammatory; dermatological;
                                                                                                                                                                                                                                                                                                                             0,
                                                                                                                                                                                                                                                                                                                                            Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                               Mismatches
spondylitis;
                                                                            receptor type,
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ADM67209
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                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                             Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a patient sample containing mRNA, analysing gene expression using the mRNA that results in a gene expression signature of the mRNA, and using that gene expression signature to diagnose or analyse the autoimmune disease or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention further comprises: a treatment of rheumatoid arthritis; identification of the gene in the patient of the gene signature.
                                                                                                                                                                                                                                                                                                                                                                                                              rheumatoid arthritis, Tupus, ankylosing spondylitis, fibrositis, fibromyalgia, osteoarthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               antigout, antiinflammatory, dermatological, antianthritic, osteog methods and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as rheumatoid arthritis, lupus, ankylosing spondyliti-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                genes for targeting in the treatment of rheumatoid arthritis in a mammal other than a mouse; diagnosis of rheumatoid arthritis in a mammal; an array or gene chip, specific for rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; screening the efficacy of a candidate drug in vitro for the treatment of collageninduced arthritis; and reducing the symptoms associated with collageninduced arthritis. The compositions of the invention have the following
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, antigout, antiinflammatory, dermatological, and immunomodulatory. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia
                                                                                            ADM67209 standard;
                                                                                                                                                                                                                                                                                                                                                        Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; Page;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Hirsch R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         31-OCT-2001; 2001US-0336220P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                31-OCT-2002; 2002WO-US035433
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CHIL-) CHILDREN'S HOSPITAL MEDICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immune; human
                                                                                                                                                                                                                                                                                               Local
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                                                                                                                                                                                                                                                                    100.0%;
nilarity 100.0%;
Conservative
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Pred. No. 10;
0; Mismatches
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03-JUN-2004 ADM67209;

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protein;

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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                         invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-
cobesity pharmaceutical compositions. Secifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                 Human cancer-associated protein HP13-011.2
                                                                       18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                            Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human adipocyte specific leukocyte common antigen protein SeqID
                                                                                                                                            ABO84455 standard; protein; 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO 563; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (HMGE-) HMGENE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         29-JUL-2003; 2003WO-US023684
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                                                                                                                                                                                                                                                                                                    Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADM66930
                                                                                                                                                                                                                                                                                                                                                                                                            adipocyte
                                                                                                                                                                                                                                  MIWEQKATV
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                                                                                                                                                                                                                                                                                                        Conservative
                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                            specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                   100.0%;
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                                                                                                                                                                                                                                                                                                                           cc comprising at least 10 contiguous nucleotides of any of the above-
cc mentioned nucleotide sequences, an isolated polypeptide (encoded within
cc an open reading frame of a CA sequence selected from any of the 95
cc polynucleotide sequences as mentioned in the specification, or its
cc complement), an isolated antibody, (or its antigen binding fragment) that
cc complement), an isolated antibody, (or its antigen binding fragment) that
cc complement) a pharmaceutical composition comprising the above
cc antibody and a pharmaceutical composition comprising the above
cc antibody and a pharmaceutical excipient, a kit for detecting cancer
cc calls (comprising the antibody cited above, methods for diagnosing cancer
cc rindividual, a method for inhibiting growth of cancer cells in an
cc individual, a method for delivering a therapeutic agent to cancer cells
ci nan individual, a method for delivering a therapeutic agent to cancer cells
cc polynucleotide or polypeptide (or their fragments), methods of screening
cc polynucleotide or polypeptide (or their fragments), methods of modulating
cc polynucleotide or polypeptide (or their fragments), methods of modulating
cc polynucleotide or polypeptide (or their fragments) methods of modulating
cc polynucleotide or polypeptide (or their fragments) methods of modulating
cc polynucleotide or polypeptide (or their fragments) methods of modulating
cc polynucleotide or polypeptide (or their fragments) methods of modulating
cc polynucleotide or polypeptide (or their fragments).

cc associated with expression of a polypeptide in a test cell sample, a
method for treating cancers and a method for inhibiting the expression of
cc diagnosing, preventing and treating cancers. especially lymphoma and
                                                  Matches
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14-MAR-2003; 2003US-0038838.

15-APR-2003; 2003US-00417375.

13-JUN-2003; 2003US-00461862.

15-SEP-2003; 2003US-00663431.

15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                               diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a human CAP protein sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-associated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                              Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              claim 18; seqid 147; 310pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                recombinant nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to an isolated nucleic acid comprising at least 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-SEP-2004
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                                                                                                                                                                                           ftp.wipo.int/pub/published_pct_sequences
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1 MIWEQKATV 9
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                                                                        Similarity
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                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acid or expression vector, a microarray
                                                                      100.0%;
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                                                  Score 48; DB Pred. No. 10; ); Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             a host cell comprising the above vector, a microarray for detection
                                                                           10;
                                                                                                 DΒ
                                                                                                 8
                                                                                                 Length 1304;
                                                                                                                                                                                                                                                                                                                   for detecting, 
ymphoma and
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745

Gaps

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RESULT 36
ADQ39380
ID ADQ39
CC has an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least CC somprision nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding CC specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the containing an SNP in a nucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a for infarrifular an areas useful in traating or reversiting.
                               method for identifying a magent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: Thi sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453113P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel method for identifying an individual who
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10; SEQ ID NO 1043; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    15-JUL-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Iakoubova
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RESULT 37
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                                                                                                                                                                                                                                         the specification or its complement and encoding any one of the amino caid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specificatly binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the nucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a method of detecting an SNP in a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction preparing a method in farction or decreased or decreased risk for developing myocardial infarction preparing and the properties of the inverse of the 
                          composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8 contiguous nucleotides where one of the nucleotides is an SNP given
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            has an altered risk for developing myocardial infarction. The meth comprises detecting a single nucleotide polymorphism (SNP) in any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADQ39375 standard; protein; 1306
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the nucleotide sequences given in the specification in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel method for identifying an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; SEQ ID NO 1038; 145pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the individual's nucleic acids.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human myocardial infarction-associated gene derived protein, SEQ ID 1038
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                                                         This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, C HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity. These compositions exhibit anorectic, antidiabetic and compositions exhibit anorectic, antidiabetic and
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                        Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     murine; mouse; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WPI; 2004-143846/14.
N-PSDB; ADM66929.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Murine adipocyte specific leukocyte common antigen protein SeqID 562.
                               hypotensive activities. This polypeptide sequence specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 562; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JUL-2003; 2003WO-US023684
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9; Conserva
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 48; ilarity 100.0%; Pred. No. Conservative 0; Mismatch
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Query Match

100.0%;

Score 48;

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Length 1343;

Sequence 1343 AA;

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733 MIWEOKATV 741
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Search completed: May 3, Job time: 55 secs

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Result No.

Database

Sequence:

Title:

Run on:

Searched:

ALIGNMENTS

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A;Accession: S36936
A;Molecule type: protein
A;Residues: 31-48 <ESA>
C;Superfamily: laccase
C;Keywords: oxidoreductase
C;Keywords: oxidoreductase
F;375-568/Domain: carboxyl-terminal beta-barrel #status predicted
F;49-231/Disulfide bonds: #status predicted
F;99-231/Disulfide bonds: #status predicted
F;90,478/Binding site: copper (His) (type 2) #status predicted
F;92,134,136,480,536,538/Binding site: 2Cu-O cluster (His) (copper
F;111-568/Disulfide bonds: #status predicted
F;113-589/Disulfide bonds: #status predicted
F;113-3,392,473,542/Binding site: substrate (Trp, Trp, Glu, His) #st
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C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd C;Keywords: alternative common antigen cytosolic domain homology cLAC>
F;594-1235/Domain: leukocyte common antigen cytosolic domain homology cLAC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         L-ascorbate oxidase (BC 1.10.3.3) precursor - Cucurbita cv. Ebisu Nankin C;Species: Cucurbita cv. Ebisu Nankin C;Species: Cucurbita cv. Ebisu Nankin C;Date: 21-Nov-1993 #sequence_revision 10-Nov-1995 #text_change 09-Jul-2004 C;Accession: S11027; S36936 R;Essaka, M.; Hattori, T.; Fujisawa, K.; Sakajo, S.; Asahi, T. Biochem. 191, 537-541, 1990 Eur. J. Biochem. 191, 537-541, 1990 A;Title: Molecular Cloning and nucleotide sequence of full-length cDNA for A;Reference number: S11027; MUID:90361033; PMID:2143984
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C;Genetics:
A;Gene: GDB:PTPRC; CD45
A;Cross-references: GDB:119768; OMIM:151460
A;Molecule type: DNA
A;Residues: 1-794 <CO2>
A;Cross-references: UNIPROT:O42890; EMBL:ALO21815; PIDN:CAA16999.1; GSPDB:GN00067; SPDB:
A;Experimental source: strain 972h-; cosmid c8E4
C;Genetics:
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                                                                                                                                                          R;Connor, R.; Churcher, C.M.; Wood,
submitted to the EMBL Data Library,
A;Reference number Z21832
A;Accession: T50376
                                                                                                                                                                                                                                                               probable peroxisomal copper amine oxidase [imported] - C;Specles: Schizosaccharomyces pombe C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #tex C;Accession: T50376; T39171
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Best Local S
Matches 6
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Residues: 1-579 <EUR>
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Best Local
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851/Active site: Cys (phosphocysteine intermediate) #status predicted
                                                                                                                                  Status: preliminary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NLSEIHPW 477
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75.0%;
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Pred. No. 27;
2; Mismatches
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Pred. No.
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te: 2Cu-O cluster (His) (copper
                                                                                                                                                                                                              V.; Barrell, B.G.; Rajandream, M.A. February 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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RESULT 5
S76143
                                                                                         A;Start codon: GTG
C;Superfamily: Ald
C;Keywords: oxidor
                                                                                                                                     A;Cross-references: UNIPROT:P74308;
A;Note: the nucleotide sequence was
C;Genetics:
                                                                                                                                                                                                                                                                              DNA Res.
A;Title:
                                                                                                                                                                                                                                                                                                                        probable aldehyde reductase (EC 1.1.1.-) - Symechocystis sp. (strain PCC 68 C;Species: Symechocystis sp. A;Variety: PCC 6803
A;Variety: PCC 6803
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 16-Aug-2004
C;Accession: S76143
R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A,Status: preliminary; translation not shown A,Molecule type: DNA A,Residues; 1-905 <PER>
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A;Reference number: S28365
A;Accession: S29329
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C; Keywords: per
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Pereira, A.; Cuypers, H.;
EMBO J. 5, 835-841, 1986
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      hypothetical protein 1 - maize transposon En-1
C;Species: Zea mays (maize)
C;Date: 22-Nov_1993 #sequence_revision 01-Dec-1995
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                                                                                                                                                                                                                                 A;Reference number: S74322; MUID:97061201; A;Accession: S76143
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Best Local S
Matches 6
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                                         Query Match
Best Local Similarity
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K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda
JA Res. 3, 199-136, 1996
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NLSELHPYL
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77.8%;
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Pred. No.
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Pred.
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                                                                                                                                                      GB:AB001339; NID:g1653477; PIDN:BAA1840 the EMBL Data Library. June 1996
                                <u>ب</u>
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                                                           Length 327;
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188 NOVELHPYL

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C;Superfamily: laccase
C;Ksywords: copper; glycoprotein; oxidoreductase
F;1-33/Domain: signal sequence #status predicted <&IG>
F;34-587/Product: L-ascorbate oxidase #status predicted <AMT>
F;34-587/Product: L-ascorbate oxidase #status predicted <BB1>
F;38-168/Domain: middle beta-barrel #status predicted <BB2>
F;159-346/Domain: carboxyl-terminal beta-barrel #status predicted <BB2>
F;379-574/Domain: carboxyl-terminal beta-barrel #status predicted <BB3>
F;54-236,116-574,215-228/Disulfide bonds: #status predicted
F;95,483/Binding site: copper (His) (type 2) #status predicted
F;97,139,141,465,542,544/Binding site: 2Cu-O cluster (His) (copper type 3) #status predicted
F;360,401,475/Binding site: carbohydrate (Asm) (covalent) #status predicted
F;480,543,548,553/Binding site: copper (His, Cys, His, Met) (type 1) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: mRNA
A; Residues: 1-1237 < FAN>
A; Cross - references: UNIPROT: Q91976; EMBL: Z21960; NID: g510510; PIDN: CAA79972.1; PID: g5105
A; Cross - references: UNIPROT: Q91976; EMBL: Z21960; NID: g510510; PIDN: CAA79972.1; PID: g5105
C; Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homology clac; phosphoric monoester hydrolase; tyrosine-specific phosphatas
F; 528-1170/Domain: protein-tyrosine-phosphatase homology cFPP>
F; 610-834/Domain: protein-tyrosine-phosphatase homology cFPP>
F; 786/Active site: Cys (phosphocysteine intermediate) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type delta precursor - C;Species: Gallus gallus (chicken)
C;Date: 02-Aug-1994 #sequence revision 02-Aug-1994 #text_change 09-Jul-2004
C;Date: 02-Aug-1994 #sequence revision 02-Aug-1994 #text_change 09-Jul-2004
C;Accession: A54080; I50592
R;Fang, K.S.; Barker, K.; Sudol, M.; Hanafusa, H.
J. Biol. Chem. 269, 14056-14063, 1994
probable membrane protein YDR180w - yeas N;Alternate names: hypothetical protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              J. Biol. Chem. 269, 14056-14063, 1994
A; Title: A transmembrane protein-tyrosine phosphatase contains spectrin-like A; Reference number: A54080; MUID:94245724; PMID:8188686
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A;Residues: 1-587 <OHK>
A;Residues: 10-587 <OHK>
A;Residues: UNIPROT:P14133; GB:J04494; NID:g167512; PIDN:AAA33119.1; PID:g167513
C;Comment: This enzyme, which catalyzes the oxidation of L-ascorbate to dehydroascorbate
C;Superfamily: laccase
C;Superfamily: norman: olumonrofein: oxidoreductase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C;Date: 30-Sep-1991 #sequence_revision 30-Sep-1991 #text_change 09-Jul-2004 C;Accession: A30094 R;Ohkawa, J; Okada, N; Shinmyo, A.; Takano, M. Proc. Natl. Acad. Sci. U.S.A. 86, 1239-1243, 1989 A;Title: Primary structure of cucumber (Cucumis sativus) ascorbate oxidase (A;Reference number: A30094; MUID:89145218; PMID:2919172 A;Accession: A30094
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                                                                                               RESULT 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          L-ascorbate oxidase (EC 1.10.3.3) precursor - cucumber
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KSKVAO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Accession: A54080
                                                                                                                                                                                                                                                                                                                                                                                                                                           792/Binding site:
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Best Local (
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                                                                                                                                                                                                                                                         1 NLSELHPYL 9
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5; Conserv
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                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                                                                                                                                                                                                              Score 36; DB 2; Le
Pred. No. 1.5e+02;
1; Mismatches 1;
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Pred. No. 65;
      yeast (Saccharomyces
ein YD9395.14
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hypothetical protein F20B18.20 - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 30-Apr-1999 #sequence_revision 30-Apr-1999 #text_change 09-Jul-2004 C;Accession: T04246 C;Accession: T04246 R;Beyan, M.; Rose, M.; Hempel, S.; Entian, K.D.; Hoheisel, J.; Mewes, H.W.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 9
C75074
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Species: Saccharomyces cerevisiae C;Date: 13-Jan-1995 #sequence_revis: C;Accession: S49777 C;Accession: S49777 D.E.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              periplasmic divalent cation tolerance protein PABL
C;Species: Pyrococcus abyssi
C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999
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A;Map position: 4R
C;Keywords: transmembrane protein
F;279-295/Domain: transmembrane ##
A; Map position: 4
A; Introns: 22/3; 62/1;
                                         A; Experimental source: C; Genetics:
                                                                                                      A; Molecule type: DNA
A; Residues: 1-224 <BEV>
                                                                                                                                                A; Reference number: Z15263
A; Accession: T04246
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Gene: PAB1717
C;Superfamily:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-101 < KAW>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Reference number: A75001
A;Accession: C75074
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A; Residues: 1-1493 < MUR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Reference number: A; Accession: S49777
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                                                             A;Cross-references: UNIPROT:Q9SZG6; EMBL:AL049483
A;Experimental source: cultivar Columbia; BAC clo
                                                                                                                                                                                         submitted to the Protein
                                                                                                                                                                                                                                                                                                               T04246
                                                                                                                                                                                                                                                                                                                                     RESULT 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPROT:Q9V010; GB:AJ248286; GB:AL096836; NID:g5458366; PIDN:CAB498
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Cross-references: UNIPROT: Q04002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       submitted to the EMBL Data Library, July 1999
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cation tolerance protein cutA1
                                                                                                                                                                                       Sequence
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85.7%;
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75.0%;
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Pred.
                                                                                                                                                                                           Database,
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Pred. No.
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                                                               clone F20B18
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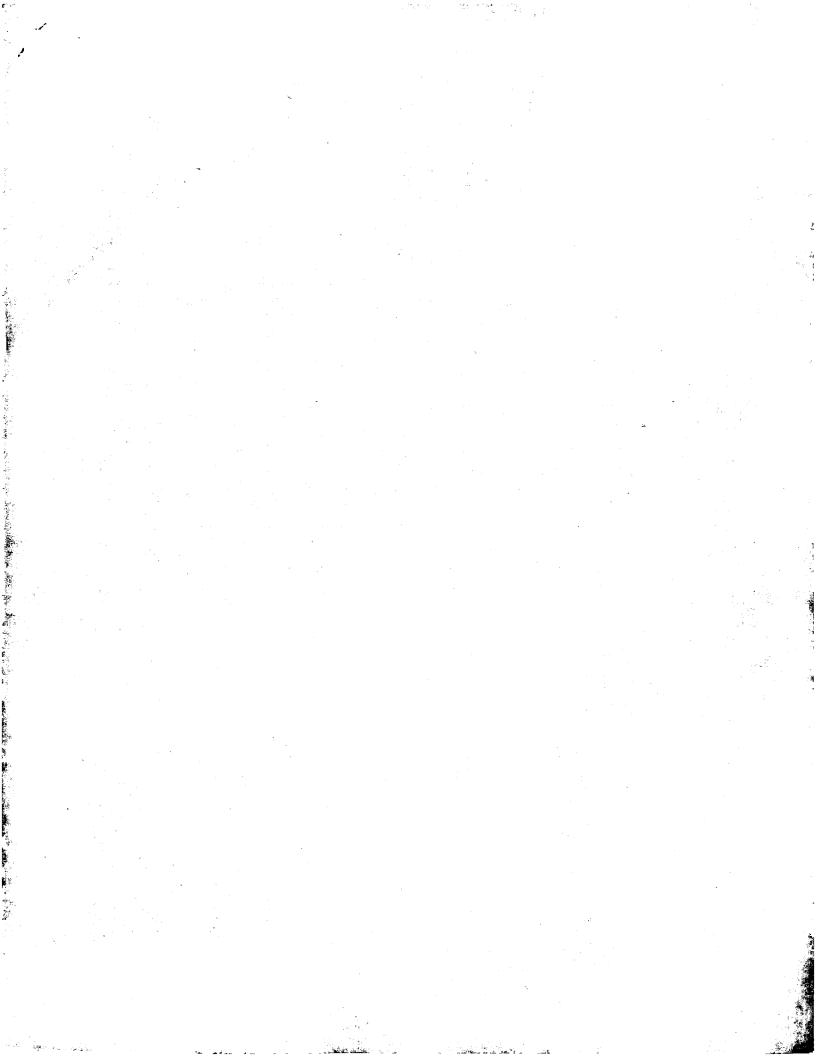
K.F.X

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RESULT 13
G83713
magnesium (Mg2+) transporter BH0511 [imported] - Bacillus halodurans (strain
C;Species: Bacillus halodurans
C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
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C;Genetics:
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C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
C;Accession: T50378; T39169
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R;Wood, V.; Rajandream, M.A.; Barrell, B.G.; Murphy, submitted to the EMBL Data Library, September 1998
A;Reference number: Z21954
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          片
                                                                                                                                                                                                                                                                                                                                          A; Molecule type: DNA
A; Residues: 1-325 < CO2>
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A; Residues: 1-244 < WOO>
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C;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision
                                                                                                                                                                                                                                                                                                          A;Cross-references: UNIPROT:042888; EMBL:AL021815; PIDN:CAA16997.1; GSPDB:GN00067; SPDB
A;Experimental source: strain 972h-; cosmid c8E4
                                                                                                                                                                                                                                                                                                                                                                      A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                        A; Reference number:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     probable oxidoreductase [imported] - fission yeast (Schizosaccharomyces pombe)
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                                                                                                                                                                                                                                             ;Superfamily:
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Pred.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                         V.; Barrell, B.G.; Rajandream, M.A. February 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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38;
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Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Recession: G83713
A;Sratus.
                                                                                                                                                                                                                                                                                                                                                                             A;Title: Refined crystal structure of ascorbate oxidase at 1.9 Angstroms A;Reference number: A58657; MUID:92194315; PMID:1548698 A;Contents: annotation; X-ray crystallography, 1.9 angstroms A;Note: the sequence reported in A51027 is attributed to R. Petruzzelli R;Messerschmidt, A.; Luecke, H.; Huber, R. submitted to the Brookhaven Protein Data Bank, November 1992 A;Reference number: A51619; PDB:1ASO
C;Complex: homotetramer
C;Function:
                                                                   R;Messerschmidt, A.; Rossi, A.; Ladenstein, R.; Huber, R.; Bolc J. Mol. Biol. 206, 513-529, 1989
A;Title: X-ray crystal structure of the blue oxidase ascorbate A;Reference number: A30633; MUID:89236417; PMID:2716059
                                                                                                                                                                                     submitted to the Brookhaven Protein Data Bank, A; Reference number: A51621; PDB:1ASQ
                                                                                                                                                                                                                                  A;Reference number: A51620; PDB:1ASP
A;Contents: annotation; X-ray crystallography,
R;Messerschmidt, A.; Luecke, H.; Huber, R.
                                                                                                                                                                                                                                                                                                            A;Contents: annotation; X-ray crystallography, R;Messerschmidt, A.; Luecke, H.; Huber, R. submitted to the Brookhaven Protein Data Bank,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Molecule type: protein
A;Residues: 52-67;100-108,'H';445-454;498-517 <ROS>
R;Messerschmidt, A.; Ladenstein, R.; Huber, R.; Bol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Reference number: A51027; PDB:1AOZ A; Accession: A51027
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     R; Messerschmidt, A.; Ladenstein, R.; Hube submitted to the Brookhaven Protein Data
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                                               A; Contents: annotation;
                                                                                                                                      A;Reference number: אסנסטגן, איניייייין A;Reference number: אסנסטגן, אינייייין A;Contents: annotation; X-ray crystallography, 2.32 ang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Accession: A30066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Contents:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Reference number: A30066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         R;Rossi,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          N; Alternate names: ascorbase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C; Superfamily: magnesium transport protein mgtE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Gene: BH0511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Experimental source: strain C-125
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Cross-references: UNIPROT: Q9KFG8; GB: AP001508;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Residues: 1-452 <STO>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                unpublished results, cited by Messerschmidt,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Residues: 1-552 <MES:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: mRNA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   L-ascorbate oxidase (EC 1.10.3.3) [validated] -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Species: Cucurbita pepo var. melopepo (zucchini); Date: 08-Nov-1989 #sequence_revision 14-Nov-1997; Accession: A51027; A30066
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A.; Petruzelli,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sequence; X-ray crystallography, 2.5 angstroms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    2 LSELHPY 8
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                                          X-ray crystallography,
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85.7%;
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Pred. No. 76;
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Bank,
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                                                 2.5 angstroms
                                                                                                                                           2.32 angstroms, azide
; Huber, R.; Bolognesi,
                                                                                                                                                                                                                   November 1992
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                                                                                                                                                                                                                                                                  2.59 angstroms,
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Gatti, G.; Mar
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                                                                                                zucchini.
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A;Description: catalyzes the oxidation of L-ascorbate to dehydroascorbate by dioxygen

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hypothetical protein C07A9.11 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 09-Jul-2004
C;Accession: S40707
R;Smith, M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Keywords: Copper; glycoprotein; homotetramer; metalloprotein; oxidoreductase F;1-133/Domain: amino-terminal beta-barrel #status experimental cBB1> F;134-311/Domain: middle beta-barrel #status experimental cBB2> F;345-538/Domain: carboxyl-terminal beta-barrel #status experimental cBB3> F;0-201,81-538,180-193/Disulfide bonds: #status experimental cBB3> F;0-201,81-538,180-193/Disulfide bonds: #status experimental F;60,448/Binding site: copper (His) (type 2) #status experimental F;62,104,106,450,506,508/Binding site: 2cu-O cluster (His) (copper type 3) #status F;62,104,106,450,506,508/Binding site: 2cu-O cluster (His) (copper type 3) #status predicted F;163,362,443,512/Binding site: substrate (Trp, Trp, Glu, His) #status predicted F;325,440/Binding site: carbohydrate (Asn) (covalent) #status predicted F;325,440/Binding site: carbohydrate (Asn) (covalent) #status predicted F;445,507,512,517/Binding site: copper (His, Cys, His, Met) (type 1) #status experimenta
Search completed: May 3, 2005, 06:15:20 Job time: 21.6892 secs
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C;Genetics:
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A;Residues: 1-590 <SMI>
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S40707
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C; Keywords: copper; gly
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Best Local Similarity 75.0
Matches 6; Conservative
                                                                                                                                                                                                                                       Query Match 71.4%;
Best Local Similarity 75.0%;
Matches 6; Conservative
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75.0%;
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; Pred. No. 95;
1; Mismatches
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Pred. No. 1e+02;
1; Mismatches 1; Indels
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QBRPB7
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Q864tx8
Q86cs19
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clostridium
schizosacch
sea maye
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Q6ED61; 25-OCT-2004 (TrEMBLrel. 28, Created)

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Preliminary;	TAGHT3	R ~	56; 56; AA	InterPro; IPR000387; TYR_pho InterPro; IPR000242; Tyr_pp. Pfam; PP000041; fn3; 2. Pfam; PP000102; Y_phosphatase PRINTS; PR00700; PRTYPHPHTAS SMART; SM00060; FN3; 2. SMART; SM00194; PTPC; 2.	7 F A A B S S S S S S S S S S S S S S S S S	N.A. 171; Verno analys	P. O	(TrEMBLrel. (TrEMBLrel. (TrEMBLrel.	PRELIMINARY				ហេហ់ហេហ
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Matches
Tissue Antigens 64:165-172(2004).

REMBL; AY445816; AAS06591.1; -.

RGO; GO:0004725; F:protein tyrosine phosphatase activity; IEA

RGO; GO:006470; P:protein amino acid dephosphorylation; IEA,

RINterPro; IPR003961; FN III.

R InterPro; IPR003957; PN-III-like.

R InterPro; IPR003957; PN-III-like.

R InterPro; IPR000397; TyR_phosphatase.

R InterPro; IPR000387; TyR_phosphatase.

R Pfam; PF00041; fn3; 2.

R Pfam; PF00041; fn3; 2.

R Pfam; PF00102; Y_phosphatase; 2.
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InterPro; IPR003957; FN III-11ke.

InterPro; IPR003595; PTDC motif.

InterPro; IPR003595; PTDC motif.

InterPro; IPR003297; TYR phosphatase.

InterPro; IPR000242; Tyr_PP.

Pfam; PF001027 Y phosphatase; 2.

Pfam; PF001027 Y phosphatase; 2.

PFAM; PF001027 Y phosphatase; 2.

PRINTS; PR00106; FN3; 2.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC motif; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS00056; TYR_PHOSPHATASE_7TP; 2.

PROSITE; PS00055; TYR_PHOSPHATASE_TPP; 2.

Hydrolase.

1303 Ab. 146020 MW: DOEBOGGAOD
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25-OCT-2004
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Bukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Tissue Antigens
EMBL; AY445817;
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Mammalia; Eutheria;
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"Comparative analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                   PubMed=15245371;
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ria; Primates; Platyrrhini; Cebidae;
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Craniata; Vertebrata;
Platyrrhini; Cebidae;
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Aotinae; Aotus.
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RESULT
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SMART; SM00160; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00404; PTPC motif; 2.
PROSITE; PS50853; FN3; 2.
PROSITE; PS500383; TYR PHOSPHATASE 1; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
              LAR.";
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J. Immunol. 141:2781-2787(1988).
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MEDLINE=88061067; PubMed=282453;
Streuli M., Hall L.R., Saga Y., Schlos
"Differential usage of three exons gen
mRNAs encoding human leukocyte common
J. Exp. Med. 166:1548-1566(1987).
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Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                            MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T.,
"Distinct functional roles of the
                                                                                                                                                                                     protein tyrosine phosphatase."; Proc. Natl. Acad. Sci. U.S.A. 8
                                                                                                                                                                                                                                              MEDLINE=89017162; PubMed=2845400; Charbonneau H., Tonks N.K., Walsh
                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=89009812; PubMed=2971730; Hall L.R., Streuli M., Schlossman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Structural variants of human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A. (ISOFORM 2), A MEDLINE=87275816; PubMed=2956090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Leukocyte common antigen precursor (T200).
                                                                                                                                                                                                                           Charbonneau H., Tonks N.K., Walsh K.A., "The leukocyte common antigen (CD45): a
                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE=Placenta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 EMBO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
                                                           domains
                                                                                                                                                                                                                                                                                         FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE OF 191-1304 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  antigen)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                            MUTAGENESIS
  FUNCTION:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               J. 6:1251-1257(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        918
                     9:2399-2407 (1990)
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                                                             the
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Required
                                                           receptor-linked
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Primates;
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  for
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 49;
Pred. No.
                                                                                                                                                                                     85:7182-7186(1988)
                                                         protein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C.C., Trowbridge
200 glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Schlossman S
ons generates
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                                                                                                                                                                                                                                                                                                                                                                                           S.F.,
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activation through the
                                                       Tang M., Saito H.;
two intracellular p
tein tyrosine phosp
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C 3.1.3.48)
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                                                                                                                                                                                                                                                                                                                                                                                             Saito
                                                                                                                                                                                                                           putative
                                                                                                                                                                                                                                                Fischer E.H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ₽
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                                                           phosphatases
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (leukocyte-common
                                                                                                                                                                                                                             receptor-linked
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; Homo.
                                                           phosphatase :
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five
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EMBL; M23473; A

EMBL; M23474; A

EMBL; M23475; A

EMBL; M23476; A

EMBL; M23477; A

EMBL; M23478; A

EMBL; M23479; A

EMBL; M23480; A

EMBL; M23481; A

EMBL; M23482; A

EMBL; M23483; A

EMBL; M23484; A

EMBL; M23484; A

EMBL; M23486; A

EMBL; M23489; A

EMBL; 
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Genew; HGNC: 96
MIM; 151460; -
GO; GO:0005887
GO; GO:0005001
GO; GO:0007166
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modified and this statement is not remov-
entities requires a license agreement (S)
or send an email to license@isb-sib.ch).
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                                                                                                                    ); GO:0005887;
); GO:0005001;
); GO:0007166;
                                                                                                                                                                                                                                                                                                                                        L; Y00638; CAA68669.1
L; Y00062; CAA6829.1
L; M23496; AAD15273.2
L; M23496; AAD15273.2
L; M23466; AAD15273.2
L; M23468; AAD15273.2
L; M23470; AAD15273.2
L; M23471; AAD15273.2
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L; M23474; AAD15273.2
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L; M23478; AAD15273.2
L; M23480; AAD15273.2
L; M23481; AAD15273.2
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L; M23484; AAD15273.2
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L; M23489; AAD15273.2
L; M246946; A46546; A46546;
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CATALYTIC ACTIVITY: Protein tyrosine phosphate +
tyrosine + phosphate.

SUBUNIT: Binds GANAB and PRKCSH (By similarity).
SUBCELLULAR LOCATION: Type I membrane protein.
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              IsoId=P08575-2; Sequence=VSP_007780;
PTM: Heavily N- and O-glycosylated.
SIMILARITY: Belongs to the protein-tyrosine phosphat
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains.
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
THE CONTAINS CONTAI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        receptor.
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                                                                                                                                                                                                                                                 HGNC:9666; PTPRC.
                       0005887; C:integral to pla
0005001; F:transmembrane r
0007166; P:cell surface re
1; IPR003961; FN III.
1; IPR003957; FN III-like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     second one seems
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                   ; FN_III.
; FN_III-like.
; TYR_phosphatase.
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                                                                                                                                                                                         plasma membrane; TAS.
                                                                                                                       e receptor protein tyro
receptor linked signal
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R Pfam; Proc. 2; Y pure PHPHYMS...

AR PRINTS; PRO0700; PRTYPHPHYMS...

DR PROSITE; PS50853; FT3; 2.

DR PROSITE; PS00383; TYR PHOSPHATASE 1; 2.

DR PROSITE; PS50056; TYR PHOSPHATASE 2; 2.

DR PROSITE; PS50055; TYR PHOSPHATASE PIP; 2.

DR PROSITE; PS50055; TYR PHOSPHATASE PIP; 2.

Thermative splicing; Antigen; Glycoprotein; Hydron Proceeding; Protein phosphatase; Repeat; S
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01-MAR-2003 (TrEMBLrel. 23, Last
01-MAR-2003 (TrEMBLrel. 23, Last
04-MAR-2003 (TrEMBLrel. 23, Last
Hypothetical protein.
0RPNames=FF10 0242;
Plasmodium falciparum (isolate 3)
Eukaryota; Alveolata; Apicomplex
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CONFLICT
CONFLICT
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VARSPLIC
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ACT_SITE
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SEQUENCE FROM N.A.

MEDLINE=22255705; PubMed=12368864; DOI=10.1038/nature01097;
Gardner M.J., Hall N., Fung E., White O., Berriman M., Hyman
Carlton J.M., Pain A., Nelson K.E., Bowman S., Paulsen I.T.,
Eisen J.A., Rutherford K., Salzberg S.L., Craig A., Kyes S.,
Chan M.S., Nene V., Shallom S.J., Suh B., Peterson J., Angiuo
                                                                                                                                                          Plasmodium falcip
Eukaryota; Alveol
NCBI_TaxID=36329;
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Pred. No. 2.6
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Protein-tyrosine phosphatase
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Cytoplasmic (Potential)
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Fibronectin type-III 2.
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exa; Haemosporida;
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Matches 6
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Matches 6
                                                                                                                          Submitted (JUL-2004) to the EMBI EMBL; CR382130; CAG81408.1; -. InterPro; IPR007109; Brix. Pfam; PF00427; Brix; 1. PROSITE; PS50833; BRIX; 1. SEQUENCE 283 AA; 32225 MW;
                                                                                                                                                                                                                                                                                                                                   Dujon B., Sherman D., Fischer G., Durrens P., Casaregola S.,
Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla B.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Boffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Boffard N., Frangeul L., Aigle M., Beyne E., Bleykasten C.,
Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
Despons L., Fabre E., Fairhead C., Ferry-Dunazet H., Groppi A.,
Hantraye F., Hennequin C., Jauniaux N., Joyet P., Kachouri R.,
Kerrest A., Koszul R., Lemaire M., Lesur I., Ma L., Muller H.,
Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellenz S., Potier S., Richard G.F., Ozier-Kalogeropoulos O.,
Pellenz S., Potier S., Richard G.F., Stenou M.L., Suleau A.,
Swennene D., Tekaia F., Wesolowski-Louvel M., Westhof E., Wirth B.,
Zeniou-Meyer M., Zivanovic I., Bolotin-Fukuhara M., Thierry A.,
Bouchier C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Pertea M., Allen J., Selengut J., Haft D., Mather M.W., Vaidya A.B., Martin D.M., Fairlamb A.H., Fraunholz M.J., Roos D.S., Ralph S.A., McFadden G.I., Cummings L.M., Subramanian G.M., Mungall C., Venter J.C., Carucci D.J., Hoffman S.L., Newbold C., Davis R.W., Fraser C.M., Barrell B.; "Genome sequence of the human malaria parasite Plasmodium foliciones sequence of the human malaria parasite Plasmodium
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ORPNames=YALIOD23859g;
Yarrowia lipolytica CLIB99.
Eukaryota; Fungi; Ascomycota; Saccharomycot.
Saccharomycetales; Dipodascaceae; Yarrowia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              25-OCT-2004 (TrEMBLrel. 28, Creat
25-OCT-2004 (TrEMBLrel. 28, Last
25-OCT-2004 (TrEMBLrel. 28, Last
25-OCT-2004 (TrEMBLrel. 28, Last
Yarrowia lipolytica chromosome D
                                                                                                                                                                                                                                          SEQUENCE FROM N.A. STRAIN=CLIB99;
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25-OCT-2004
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ilarity 66.7%;
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Pred. No. 1.7e
2; Mismatches
                                                               Score 39; DB Pred. No. 39; 3; Mismatches
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                                                                                                                             9EAB02EEE1E281C7 CRC64;
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annotation update)
of strain CLIB99 o
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RESULT 7

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ID QRRPB7

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CO; GO:0005739; C:mitochondrion; IEA.

GO; GO:0003994; F:aconitate hydratase activity; IEA.

GO; GO:0016829; F:lyase activity; IEA.

R GO; GO:0016829; P:metabolism; IEA.

R GO; GO:0006152; P:metabolism; IEA.

R GO; GO:0006099; P:tricarboxylic acid cycle; IEA.

R GO; GO:0006099; P:tricarboxylic acid cycle; IEA.

R InterPro; IPR000573; Aconitase_C.

R InterPro; IPR000573; Aconitase_Mito.

InterPro; IPR001030; Aconitase_N.

Pfam; PF00330; Aconitase; 1.

Pfam; PF00330; Aconitase; 1.

Pfam; PF00330; Aconitase; 1.
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Q64PT4;
25-OCT-2004 (TrEMBLrel. 2
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25-OCT-2004 (TrEMBLrel. 2
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Q8RP87;
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ORFNames=BF3755;
Bacteroides fragilis.
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STRAIN=YCH46;
Kuwahara T., Yamashita A., Hirakawa H., Nakayama H., Toh H.,
Kuwahara T., Yamashita A., Hirakawa H., Nakayama H., Toh H.,
Kuhara S., Hattori M., Hayashi T., Ohnishi Y.;
"Genomic analysis of Bacteroides fragilis reveals extensive
"Strong analysis of Bacteroides fragilis reveals extensive
"Genomic 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         TIGRFAMS; TIGR01340; aconitase mito; PROSITE; PS00450; ACONITASE 1; 1. PROSITE; PS01244; ACONITASE 2; 1.
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PRINTS; PR00415; ACONITASE.
ProDom; PD000511; Aconitase_N; 1.
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01-JUN-2002 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
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MEDLINE=21927545; PubMed=11880608; DOI=10.1073/pnas.052710199;
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NCBI_TaxID=817;
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                                                                                                                                                                                                                                                                                                                                   FROM
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Pred. No. 1.2e
1; Mismatches
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Best Local S
Matches 7
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GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:0003994; F:aconitate hydratase activity; IEA.
GO; GO:0016829; F:lyase activity; IEA.
GO; GO:0008152; p:metabolism; IEA.
GO; GO:0008152; p:metabolism; IEA.
GO; GO:0008099; P:tricarboxylic acid cycle; IEA.
InterPro; IPR000573; Aconitase C.
InterPro; IPR000573; Aconitase mito.
InterPro; IPR00130; Aconitase M.
InterPro; IPR00130; Aconitase J.
Pfam; PF00330; Aconitase C; 1.
Pfam; PF00330; Aconitase C; 1.
Pfam; PF00349; Aconitase N; 1.
PTONDOM; PF000511; Aconitase Mito; 1.
RTIGRFAMS; TIGR01340; Aconitase mito; 1.
RPROSITE; PS00450; ACONITASE 1; 1.
RPROSITE; PS01244; ACONITASE 2; 1.
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HSSP; P16276; 1B0J.
GO; GO:0005739; C:mii
GO; GO:0016829; F:lxy;
GO; GO:0008152; P:mei
GO; GO:0008152; P:mei
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PubMed=15028702; DOI=10.1128/JB.186.7.2164-2172.2004;

Nascimento A.L.T.O., Ko A.I., Martins E.A.L., Monteiro-Vitorello C.B.,

Ho P.L., Haake D.A., Verjovski-Almeida S., Hartskeerl R.A.,

Marques M.V., Oliveira M.C., Menck C.F.M., Leite L.C.C., Carrer H.,

Coutinho L.L., Degrave W.M., Dellagostin O.A., El-Dorry H.,

Ferro E.S., Ferro M.I.T., Furlan L.R., Gamberini M., Giglioti E.A.,

Goes-Neto A., Goldman G.H., Goldman M.H.S., Harakava R.,

Jeronimo S.M.S., Junqueira-de-Azevedo I.L.M., Kimura E.T.,

Kuramae E.E., Lemos E.G.M., Lemos M.V.F., Marino C.L., Nunes L.R.,

de Oliveira R.C., Pereira G.G., Reis M.S., Schriefer A.,

Siqueira W.J., Sommer P., Tsai S.M., Simpson A.J. G., Ferro J.A.,

Camargo L.E.A., Kitajima J.P., Setubal J.C., Van Sluys M.A.;

"Comparative genomics of two Leptospira interrogans serovars reveals
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q75FE5;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             novel insights into physiology and pathogenesis.";
J. Bacteriol. 186:2164-2172(2004).
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05-JUL-2004
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                                                                                                                                                                                                          Similarity 7; Conserv
                                                                                                         NLSELEPYI 323
                                                                                                                                                        NLSELHPYL 9
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Pred. No.
                                                                                                                                                                                                                                      Score 39; DB 2;
Pred. No. 1.2e+0
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                                                                                                                                                                                                                Mismatches
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GO; GO:0005739; C:mitochondrion; IEA.
GO; GO:0003994; F:acconitate hydratase activity; IE
GO; GO:0016822; F:lyase activity; IEA.
GO; GO:0016822; F:metabolism; IEA.
GO; GO:0006099; P:tricarboxylic acid cycle; IEA.
InterPro; IPR00673; Acconitase C.
InterPro; IPR006248; Aconitase mito.
InterPro; IPR001030; Aconitase N.
                                                                                                                                                                                                                                                                                                                                                                              Matches
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Pfam; PF00694; Aconitase C; 1.
PRINTS; PR00415; ACONITASE.
ProDom; PD000511; Aconitase N; 1.
TIGRERAMS; TIGR01340; Aconitase mito; 1.
PROSITE; PS00450; ACONITASE 1; 1.
PROSITE; PS01244; ACONITASE 2; 1.
                                                                                                                                                                                   Q64TX8; PRELIMINARY;
Q64TX8;
25-OCT-2004 (TrEMBLrel. 2
25-OCT-2004 (TrEMBLrel. 2
25-OCT-2004 (TrEMBLrel. 2
            Kuwahara T., Yamashita A., Hirakawa H., Nakayama H.,
Kuhara S., Hattori M., Hayashi T., Ohnishi Y.;
"Genomic analysis of Bacteroides fragilis reveals ex
                                                                                                                             Bacteroides fragilis.
Bacteria; Bacteroidet
                                                                                                                                                         ATP-dependent pr
ORFNames=BF2304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Unique physiological and pathogenic interrogans revealed by whole-genome Nature 422:888-993(2003).
EMBL; AE011619; AAN51886.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ren S.-X., Fu G., Jiang X.-G., Zeng R., Miao Y.-G., Xu H., Zhang Y.-X., Xiong H., Lu G., Lu L.-F., Jiang H.-Q., Jia J., Tu Y.-F. Jiang J.-X., Gu W.-Y., Zhang Y.-Q., Cai Z., Sheng H.-H., Yin H.-F., Zhang Y., Zhu G.-F., Wan M., Huang H.-L., Qian Z., Wang S.-Y., Ma W., Yao Z.-J., Shen Y., Qiang B.-Q., Xia Q.-C., Guo X.-K., Danchin A., Saint Girons I., Somerville R.L., Wen Y.-M., Shi M.-H., Chen Z.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             01-MAR-2003 (TrEMBLrel. 23, Created)
01-MAR-2003 (TrEMBLrel. 23, Last sequence up
01-OCT-2003 (TrEMBLrel. 25, Last annotation
Aconitate hydratase (EC 4.2.1.3).
Name-acn; OrderedLocusNames=LB327;
                                                                                              NCBI_TaxID=817;
                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
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01-MAR-2003
                                                       STRAIN=YCH46;
                                                                     SEQUENCE FROM N.A.
                                                                                                               Bacteroidaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STRAIN=56601 / Serogroup Icterohaemorrhagiae / Serovar lai;
MEDLINE-22598143; PubMed-12712204; DOI=10.1038/nature01597;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
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inversions regulating
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                                                                                                                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                                                                                                                                                      NLSELEPYI
                                                                                                                                                                                                                                                                                                                                                                                                                                                 proteome.
                                                                                                                              Bacteroidetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                       757
                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                              PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRELIMINARY;
                                                                                                                                                                        protease.
                                                                                                                                                                                                                                                                                                                                                                                                                                     AA;
                                                                                                                  Bacteroides
                                                                                                                                                                                                                                                                                                                                                                                                                                     81953 MW;
                                                                                                                                                                                                                                                                                                                                                                                           79.6%;
77.8%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and pathogenic features of Leptospira
                                                                                                                                                                                    28,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Spirochaetales;
                                                                                                                              Bacteroides (class); Bacteroidales;
 surface adaptation.";
                                                                                                                                                                                                                                                                                                                                                                            1;
                                                                                                                                                                                      Last sequence update)
Last annotation updat
                                                                                                                                                                                                                 Created)
                                                                                                                                                                                                                                                                                                                                                                                          Score 39; DB 2;
Pred. No. 1.2e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                    40D92AE7697CF878 CRC64;
                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sequencing.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        757
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                                                                                                                                                                                      update)
                                                                                                                                                                                                                                                                                                                                                                                                         Length 757;
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                                        Toh H.,
                                                                                                                                                                                                                                                                                                                                                                            0;
                                           Okada
                                                                                                                                                                                                                                                                                                                                                                            Gaps
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Best Local
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                   pfam; pF02518; HATPase_C; 1.
pfam; pF00165; HisRA; 1.
pfam; pF00165; HTH_AraC; 2.
pfam; pF00165; HTH_AraC; 2.
pfam; pF00494; Reg_prop; 14.
pfam; pF00494; Response_reg; 1.
pfam; pF00072; Response_reg; 1.
pfam; pF00034; BCTRLSENSOR.
pRINTS; pR00034; HTHARAC.
proDom; pD000039; Response_reg; 1.
smarT; SM00387; HATPase_C; 1.
smarT; SM00387; HTHARAC; 1.
smarT; SM00342; HTH_ARAC; 1.
smarT; SM00348; REC; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Xu J., Bjursell M.K., Almaco, Chiang H.C., Hooper L.V., Gordon J.T.;
Chiang H.C., Hooper L.V., Gordon J.T.;
"A genomic view of the human-Bacteroides thetaiotaomicron symbiosis.
Science 299:2074-2076(2003).
-I- SIMILARITY: Contains 1 histidine kinase domain.
EMBL, AE016938; AA078029.1; -.
HSSP; P06143; 1JBE.
HSSP; P06143; 1JBE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Protease.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro;
InterPro;
InterPro;
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InterPro;
InterPro;
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SEQUENCE FROM N.A.
STRAIN=VPI-5482 / ATCC 29148;
STRAIN=22550858; PubMed=12663928; DOI=10.1126/science.1080029;
MEDLINE=22550858; PubMed=12663928; Deng S., Carmichael L.K.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    HSSP;
                                                                                                                                                                                                                                                                                            InterPro; IPR011110; Reg_prop.
InterPro; IPR01789; Response reg.
InterPro; IPR011046; WD40 like.
InterPro; IPR011123; Y Y V.
Pfam; PF02518; HATPase c; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q8A3N1;
01-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q8A3N1
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EMBL; AP006841; BAD49051.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Bacteroidaceae; Bacteroides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacteroides thetaiotaomicron.
Bacteria, Bacteroidetes, Bacteroides (class), Bacteroidales,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OrderedLocusNames=BT2923
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GO:0005622; C:intracellular; IEA.
GO:0016020; C:membrane; IEA.
GO:0005524; F:ATP binding; IEA.
GO:0016301; F:kinase activity; IEA.
GO:0016301; F:transcription factor activity; IEA.
GO:0003700; F:transferase activity; IEA.
GO:00016740; F:transferase activity; IEA.
GO:0000155; F:two-component response regulator activity;
GO:0000160; F:sensory perception; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GO:0000160;
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JIPR004358; Bact sens pr.C.

JIPR01106; Chey like.

JIPR005467; His kinase.

JIPR003661; His kinase.

JIPR003661; His kina N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 66. 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NITETHPYL 139
    PS50109;
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66.7%;
    KIN; 1
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          PRT;
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RESULT 13
Q6CSL9
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Q6CSL9;
25-OCT-2004 (TrEMBLrel. 28, Cr
25-OCT-2004 (TrEMBLrel. 28, La
25-OCT-2004 (TrEMBLrel. 28, La
25-OCT-2004 (TrEMBLRel. 28, La
Similar to ca|CA3241|IPF7493 C
ORFName6=KLLAOCL94819;
                                                                                                                                                                                                                                                                                                                                                                             Dujon B., Sherman D., Fischer G., Durrens P., Casaregola S.,
Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Barnay S., Blanchin S., Beckerich J.M., Beyne E., Bleykasten C.,
Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
Bespons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
Hantraye F., Hennequin C., Jauniaux N., Joyet P., Kachouri R.,
Kerrest A., Koszul R., Lemaire M., Lesur I., Ma L., Muller H.,
Micaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellenz S., Potier S., Richard G.F., Joyet B., Wirth B.,
Swennene D., Tekaia F., Wesolowski-Louvel M., Westhof E., Wirth B.,
Zeniou-Meyer M., Zivanovic I., Bolotin-Fukuhara M., Thierry A.,
Boucher C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
Wincher C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
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PROSITE;
PROSITE;
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[2]
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STRAIN=NRRL Y-1140;
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Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Kluyveromyces.
MCBI_TaxID=284590;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Complete proteome; DNI
Sensory transduction;
                                                                                       InterPro; IPR005828; Sub_transporter.
InterPro; IPR005829; Sug_transporter.
Pfam; PF0083; Sugar tr; 1.
PROSITE; PS50850; MFS; 1.
PROSITE; PS00216; SUGAR_TRANSPORT_1;
                                                                                                                                                                 -!- SUBCELLULAR LOCATION: Integral membr
EMBL, CRA82123; CAH01921.1; -
GO; GO:0016021; C:integral to membrane;
GO; GO:0005215; F:transporter activity;
GO; GO:0006810; P:transport; IEA.
InterPro; IPR007114; MFS.
                                                                                                                                                                                                                                                             Genoscope;
Submitted
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                                                             SEQUENCE
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SEQUENCE 390
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RRL Y-1140;
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                                                                                                                                                                                                                                                             (JUL-2004) to the EMBL/GenBank/DDBJ databases.
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 Conservative
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                                                            ΑA;
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HTH_ARAC_FAMILY_2; 1.
; RESPONSE_REGULATORY; 1.
e; DNA-binding; Kinase; Phosphorylation;
m==necription; Transcription regul
                                                                                     SUGAR_TRANSPORT_1; 1.
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                                                             43768 MW;
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77.8%;
                                                                                                                                                                                                                                                                                                                                                       yeasts.";
Score 38; DB:
Pred. No. 88;
2; Mismatches
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Last annotation update)
3 Candida albicans putative
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Pred. No. 2.2e+02;
0; Mismatches 2;
                                                             A7522C7557CB5640 CRC64;
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RESULT
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)_CUCMA
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DISULFID
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DOMAIN
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CHAIN
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PROSITE; PS00080; MULTICOPPER OXIDASE2; 1.
Copper; Direct protein sequencing; Glycoprotein; Metal-binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                InterPro; IPR001117; Cu-oxidase.
InterPro; IPR002355; Cu_ox_copper_BS.
InterPro; IPR008972; Cupredoxin.
Pfam; PP00394; Cu-oxidase; 1.
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01-MAR-1992 (Rel. 21, Created)
01-NOV-1997 (Rel. 35, Last sequence up
05-JUL-2004 (Rel. 44, Last annotation
                                                                                                                                                                                                                                               Copper; Direct Oxidoreductase;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Cloning of the pumpkin ascorbate oxidase gene and acting region involved in induction by auxin."; Plant Cell Physiol. 38:631-637(1997).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Esaka M., Hattori T., Fujisawa K., Sakajo S., Asahi T.; "Molecular coloning and nucleotide sequence of full-length cDNA for ascorbate oxidase from cultured pumpkin cells."; Eur. J. Biochem. 191:537-541(1990).
                                                                                                                                                                                                                                                                                                                                                                                                                                                             PIR; S11027; S11027.
HSSP; P37064; 1AOZ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Kisu Y., Harada Y., Goto M., Esaka M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=97354114; PubMed=9210335;
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Esaka M., Hattori T., Fujisawa K.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or normal, and type 3 or coupled binuclear. SIMILARITY: Belongs to the multicopper oxidase family. SIMILARITY: Contains 3 plastocyanin-like domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 COFACTOR: This protein belongs to the multicopper contain three distinct Cu centers known as type 1
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CONFLICT
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MEDLINE-22457253; PubMed-12552129; DOI-
Brueggemann H., Baeumer S., Fricke W.F.
Procker T. Herzberg C., Martinez-Arias
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METAL
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Bacteria; Firmicutes;
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Ol-JUN-2003 (TrEMBLrel. 24, Last sequence update)
Ol-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Internalin A-like protein/putative S-layer protein.
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PRINTS; PR00019; LEURICHRPT.
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SUMMARIES

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ALIGNMENTS

RESULT 1 ABG31975 ABG31975 standard; peptide; 9 B

ABG31975;

05-NOV-2002 (first entry)

Human CD45 HLA-binding peptide, huCD45/919.

Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CTU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic; haematopoietic; malignant.

Homo sapiens.

WO200244207-A1

30-NOV-2000; 2000WO-GB004566

30-NOV-2000; 2000WO-GB004566

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

Stauss HJ, Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
ABG31.976
ID ABG3
XX ABG3
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XX ABG3
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic;
   The invention discloses a peptide comprising the human leukocyte antigen (HLA) binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
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                                                                                                                                                                                                                                                               Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for
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                                                                                                                                                                     Claim
                                                                                                                                                                                                                                                                                                                                                                      WPI; 2002-599413/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD
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                                                                                                                                                                                                                                       cancerous cells
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RESULT 3
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Matches 9
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14-MAR-2003; 2003US-0038838.

15-APR-2003; 2003US-00417375.

13-JUN-2003; 2003US-00461862.

15-SEP-2003; 2003US-00663331.

15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human cancer-associated protein HP13-011.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABO84454;
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                                                                                                                                                                                                                                                                                                                                                                                                                                    lymphoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      cancer-associated protein; cytostatic; cancer; leukaemia;
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9; Conserv
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0; Mismatches
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New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.

N-PSDB;

ABD32625.

contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-

nucleic acid comprising at least

claim 18; seqid 145; 310pp; English.

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RESULT 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Contriguous nucleotides of any of the 235 polyhucleotide sequences given continued to specification, or its complement. The nucleic acid encode cancer-session vector comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above mentioned nucleotide sequences, an isolated polypeptide (encoded within a open reading frame of a CA sequence selected from any of the 95 complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above calls (complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above monoclonal antibody, a pharmaceutical composition comprising the above calls (comprising the antibody cited above, methods for disgnosing cancer cells in an individual, a method for inhibiting growth of cancer cells in an cell individual, a method for delivering a therapeutic agent to cancer cells in an exticated with expression of a polypeptide (or their fragments), methods of screening the activity of a CA protein (CAP), methods for detecting cancer cells associated with expression of a polypeptide in a test cell sample, a sequence data for their promosition and method for inhibiting the expression of cancers and a method for inhibiting the expression of sequence. These may also be used in screening for agent to cancer the sequence data for this patent did not form part of the printed cell sequence data for this patent did not form part of the printed cell sequence. Note: The sequence data for this patent did not form part of the printed cell of the printed ce
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Best Local 9
              20-DEC-2002;
10-MAR-2003;
30-APR-2003;
23-SEP-2003;
                                                                                                                                                                                                                                                                                                                                                                         18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence
                                                                                                              22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                          WO2004058052-A2
                                                                                                                                                                                                                                                                                       Myocardial infarction; detection; single nucleotide polymorphism; SNP
                                                                                                                                                                                                                                                                                                                              Human myocardial infarction-associated gene derived protein, SEQ ID 1040
                                                                                                                                                                                                                                                                                                                                                                                                                                               ADQ39377 standard; protein; 960 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        379
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NLSELHPYL 387
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                764 AA;
                                                                                                                                                                                                                                                                       gene
              ; 2002US-0434778P.
; 2003US-0453135P.
; 2003US-0466412P.
; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 49; DB 8 Pred. No. 0.75;
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protease; protease inhibitor; transporter; tytosoccurer; receptor; transcription factor; cancer; MHC; myeloma; colon cancer; major histocompatability complex; myeloma; colon cancer;

gastric cancer;

WO200278524-A2

Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein;

Human expressed

protein tag

(EPT) #1912.

29-JAN-2003 ABU05246;

(first entry)

ABU05246 standard;

protein; 1114 AA

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel method for identifying an individual who CC charge at altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least complement and encoding any one of the anino CC acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an isolated polypeptide comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from CC sequence was not shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      the individual's nucleic
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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.0%; Pred. No. 0.:
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          DB 8;
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RESULT 6
ABU05239
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                         Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
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                                                                                                                                                                                                                            29-JAN-2003
                                                                                                                                                                                                                                                                                       ABU05239 standard; protein; 1114 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2;
                               WO200278524-A2
                                                             Homo sapiens
                                                                                             adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating cancer, e.g. colon cancer, gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity nes 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                        NLSELHPYL 737
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; 2001US-0292544P.; 2001US-0310801P.; 2001US-0326370P.; 2001US-0336780P.; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                          (first entry)
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                                                                                             sarcoma;
                                                                                                                                                                                           protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .0%;
                                                                                             melanoma; lymphoma; leukaemia
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                                                                                                                                                                                           (EPT) #1905.
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Pred. No.
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The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide, is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC polypucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC lymphoma or leukaemia. These are also useful for screening agents for C treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational CC profiling. Note: This sequence does not appear in the printed Screening CC profiling. Note: This sequence does not appear in the printed CC profiling. Note: This sequence does not appear in the printed CC profiling. Note: This sequence for translational CC profiling. Note: This sequence does not appear in the printed CC profiling. Note: This sequence for translational CC profiling. Note: This sequence does not appear in the printed CC profiling. Note: This sequence for translational CC profiling. Note: This sequence does not appear in the printed CC profiling. Note: This sequence for translational CC profiling.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptides (e.g. cytoskeletal proteins, treating cancer, e.g. c
                                                   Sequence 1114 AA;
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20-FEB-2002;
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01-OCT-2001;
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21-MAY-2001;
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2001US-0292544P.

2001US-0310801P.

2001US-0326370P.

2001US-0336780P.

2002US-0358985P.
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    kinases, phosphatases, proteases, transporters,
receptors or transcription factors), useful for
colon cancer, gastric cancer, sarcoma, lymphoma

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6; Length 1114;
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            S
                            Matches
                                  Query Match
Best Local Similarity
729
            1 NLSELHPYL
                         9;
NLSELHPYL
                           Conservative
             9
                                   100.0%;
                            <u>,</u>
                                   Score 49; DB Pred. No. 1.1;
                             Mismatches
                            0
                            0
                            Gaps
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RESULT 7
ABU05240
ABU05240 standard; protein; 1143 AA
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Human protein tag (EPT) #1906

29-JAN-2003

(first entry)

Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.

Homo

WO200278524-A2

10-OCT-2002.

10-OCT-2002

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ABUO5245
ID ABUO
XX ABUO
XX ABUO
XX ABUO
XX Huma
XX Tran
XX Tran
KW Prot
KW rece
KW majc
KW rede
KW ader
XX W ader
XX Home
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor. The Ctransporter, cytoskeltal protein, receptor or transcription factor. The CC transporter, cytoskeltal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide, is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class I MHC-binding polypeptide. The polypeptides and CC class I or class I MHC-binding polypeptide. The polypeptides and CC polypucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                               Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                   WO200278524-A2
                                                                                                    adenocarcinoma;
                                                                                                                                                                                                                                        29-JAN-2003
                                                                                                                                                                                                                                                                        ABU05245
                                                                                                                                                                                                                                                                                                        ABU05245 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                specification but was obtained in electronic format directly from WIPO
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2001US-0336780P.
2002US-0358985P.
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2001US-0310801P.
                                                                                                                                                                                                                                      (first entry)
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                                                                                                                                                                                                       protein
                                                                                                    sarcoma;
                                                                                                                                                                                                                                                                                                                                                                                           766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
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                                                                                                                                                                                                   tag
                                                                                                    melanoma; lymphoma; leukaemia
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•
                                                                                                                                                                                                         (EPT) #1911.
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Pred. No.
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1.2;
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                                                                                                                                                                   phosphatase;
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RESULT 9
ADI146232
ID ADI1
XX
AC ADI1
XX
DT 06-1
XX
UT 05-1
XX
EW Cyt
KW Cyt
KW pro
KW pro
KW pro
KW ind
KW gui
KW gui
KW ce.
XX
OS Ho
XX
PD XX
PD 2:
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04-DEC-2001;
20-FEB-2002;
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21-MAY-2001;
08-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              transporter, cytoskeletal protein, receptor to the composition for eliciting in polypeptide is useful as an immunogenic composition for the purified mammal an immunogenic response directed against any of the purified mammal an immunogenic response directed against any of the binds to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes a purified fragment of a kinase, phosphatase, transporter, cytoskeletal protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1143 AA
                                 WO2003068984-A2
                                                                                                  cell-cycle abnormality;
                                                                                                                                                                                                                                06-MAY-2004
                                                                                                                                                                                                                                                                                                ADL16232 standard;
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                                                                                                                                                                                                                                                                ADL16232;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             leukemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                              758 NISELHPYL 766
                                                                                                                                                                                               protein tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                             1 NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
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                                                                                                              host disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; 2001US-0279495P.
; 2001US-0392544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                              protein; 1143 AA.
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                                                                                                                                                                                               phosphatase
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Pred. No. 1.2;
                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polypeptide, which comprises a protease, protease inhibitor, receptor or transcription factor.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
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RESULT 10
ADQ18845
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that; (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 9
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                                                                                                                                                                                                                                                                                                                                                                                                                              Human soft tissue sarcoma-upregulated protein - SEQ ID 1664.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     screening
cancer or
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12-FEB-2003; 2003US-00366547.
(PROT-) PROTEIN DESIGN LABS INC
                                                         26-NOV-2002; 2002US-0429739P.
                                                                                                                  26-NOV-2003; 2003WO-US038193.
                                                                                                                                                                                                                                            WO2004048938-A2
                                                                                                                                                                                                                                                                                                        Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                     tissue
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                                                                                                                                                                                                                                                                                                                                                                  sarcoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
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                                                                                                                                                                                                                                                                                                                                                                  cytostatic; gene therapy; vaccine; screening;
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Best Local S
Matches 9
                                            23-DEC-1999;
21-JAN-2000;
25-APR-2000;
20-JUN-2000;
19-JUL-2000;
03-AUG-2000;
14-SEP-2000;
19-OCT-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples and comparing the expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the
                                                                                                                                                                                                                                                                                                                                  Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                Human polypeptide SEQ ID NO 5979.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 AAM41048;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AAM41048 standard; protein;
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                                                                                                                                                                                                                          26-JUL-2001.
                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-OCT-2001 (first entry)
                                                                                                                                                                                            26-DEC-2000; 2000WO-US034263
                                                                                                                                                                                                                                                        WO200153312-A1
(HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                      eukaemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 1664; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ilarity 100.0%;
Conservative (
                            99US-00471275.
2000US-00488725.
2000US-00552317.
2000US-00552312.
2000US-00620312.
2000US-00623450.
2000US-00662191.
2000US-0063296.
2000US-0063296.
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Pred. No. 1.2
0; Mismatches
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1.2;
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RESULT 12
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Matches 9
                              28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer disgnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and can the printed encertification.
                                                                                                                                                                                                               Translational profiling; expressed protein tag; EPT; kinase; phos protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histoccompatability complex; myeloma; colon cancer; gastric adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                          Human expressed
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Wang
Zhou
                                                                                                                     28-MAR-2002; 2002WO-US009671.
                                                                                                                                             10-OCT-2002
                                                                                                                                                                    WO200278524-A2
                                                                                                                                                                                           Homo sapiens
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          (ZYCO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001-442253/47.
DB; AAI60204.
                                                                                                                                                                                                                                                                                                                                                                                                                              764
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          ZYCOS
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Wang Z,
Goodrich
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                                                                                                                                                                                                                                                                                                                                                                standard; protein; 1149
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Wehrman T,
1 R, Drmanac
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Xu C
RT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 49;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                                                                                                                                                                                                                                                                                                                                                                 A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  English.
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Xue
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Yang Y,
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Zhang
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                                                                                                                                                                                                                                                                 phosphatase;
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J, Zhao (
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                                                                                                                                                                                                                              cancer;
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RESULT 13
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention describes a purified polypeptide, which comprises a configuration of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local S
Matches 9
            20-FEB-2003;
19-MAR-2003;
28-MAR-2003;
09-APR-2003;
17-APR-2003;
                                                                                                                                                                                                                                                                                                human; kinase and phosphatase protein; KPP; enzyme; cytostatic; antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's d
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                02-SEP-2004.
                                                                                                                                                                              WO2004074453-A2
                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                     Human kinase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1149
                                                                                                               20-FEB-2004;
                                                                                                                                                                                                                                                                    developmental
                                                                                                                                                                                                                                                                                  stroke; immune disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                      18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADR39747 standard; protein; 1192 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example
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9; Conser
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            2003US-0449059P.
2003US-0456932P.
2003US-0458844P.
2003US-0461678P.
2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                   and phosphatase
                                                                                                               2004WO-US005092
                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
                                                                                                                                                                                                                                                                disorder; Hypothyroidism; Cushing's syndrome;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            B
                                                                                                                                                                                                                                                                                neurological disorder; epilepsy; Huntington's disease;
isorder; inflammatory disorder; AIDS; allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NO 1908; 134pp; English.
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100.0%; Pred. No. 1.
cive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                     SEQ
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                                                                                                                                                                                                                                                                                                                                                    neuroprotective;
                                                                                                                                                                                                                                                                                                                                                                                                     NO:20
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XX 15-JU
XX 20-DE
PR 20-DE
PR 20-DE
PR 30-AE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
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Recha SD, Lee SY, ha.
RA, Yang J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1192 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The present sequence represents the human kinase and phosphatase protein (KPP), designated KPP-20: The human KPP sequences from the present invention have cytostatic, antiarteriosclerotic, anticonvulsant, nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antiinflammatory and thyromimetic activities, and can be used in gene the contract of the 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453133P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 1; SEQ ID NO 20; 299pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human myocardial infarction-associated gene derived protein, SEQ ID 1041
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    Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                     22-DEC-2003; 2003WO-US040978.
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                                                                                      (APPL-) APPLERA CORP
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DB; ADR39793.
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    Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
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    Iakoubova 0;
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Pred. No. 1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 8;
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Length 1219;

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CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's curulated acids, where the presence of the SNP is correlated with an an acc altered risk for myocardial infarction in the individual's curulated acids, where the presence of the SNP is correlated with an an acc altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least acid sequences given in the specification; an isolated polymon acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antispen-binding the specification and which is between about 16 and 1000 nucleotides in a conclusion and which is between about 16 and 1000 nucleotides in an uncleic acid molecule, a method of detecting an SNP in a nucleic acid, comprising the polyputal of the invention and spent useful in treating or preventing composition indentifying an agent useful in treating or preventing composition for treating or preventing wyocardial infarction. The novel detection method has cardiant activity. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 10; SEQ ID NO 1041; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the individual's nucleic acids.
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RESULT 15
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                        human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
29-JUL-2002; 2002US-0398785P
                                                                                                                                                                                               05-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human adipocyte specific PTPase receptor type C protein SeqID 541.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                03-JUN-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADM67187 standard; protein; 1256
                                                                                        29-JUL-2003; 2003WO-US023684
                                                                                                                                                                                                                                                                                       WO2004011618-A2
                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             842
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 49; DB 8;
Pred. No. 1.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0,
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RESULT 16
ADP12966
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                        transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
 Wohlgemuth J,
                                                               24-APR-2002; 2002US-00131831
20-DEC-2002; 2002US-00325899
                                                                                                              24-APR-2003; 2003WO-US012946
                                                                                                                                              21-MAY-2004
                                                                                                                                                                             WO2004042346-A2
                                                                                                                                                                                                                                                                                       Protein encoding
                                                                                                                                                                                                                                                                                                                        12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                        ADP12966
                                                                                                                                                                                                                                                                                                                                                                                      ADP12966 standard; protein; 1256 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; SEQ ID NO 541; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       12-JUN-2003; 2003US-0478206P
                               (EXPR-) EXPRESSION DIAGNOSTICS INC
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DB; ADM66908.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NLSELHPYL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
                                                                                                                                                                                                                                                                                                                       (first entry)
Fry K,
                                                                                                                                                                                                                                                                                     referenece mRNA sequence #51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%; Score 49; DB 8; 100.0%; Pred. No. 1.3;
Woodward R,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1256;
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 Morris
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RESULT 17
ADQ39376
ID ADQ39
XX ADQ39
XX ADQ39
XX ADQ39
XX MYOCA
XW CATGI
XX MYOCA
XW CATGI
XX HOMO
DE HUMAN
XX HOMO
DS HOMO
DS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Ś
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Best Local 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-MAR-2003;
30-APR-2003;
23-SEP-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human myocardial infarction-associated gene derived protein, SEQ ID 1039
                                                                                                                                                                                                                                                                                                             Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-DEC-2002; 2002US-0434778P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         22-DEC-2003; 2003WO-US040978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Myocardial infarction; detection; single nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADQ39376;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 65; SEQ ID NO 2975; 1762pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    pancreas, pancre
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                                                                                                                                                                                                                                                                                                                                                                                                    (APPL-) APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               15-JUL-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-400724/37.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               871
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                                                                                                                                                                             ADQ38548.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                         Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; 2003US-0453135P.
; 2003US-0466412P.
; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               therapy;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.

polymorphism

Claim 10;

SEQ ID

NO 1039; 145pp; English.

ç

novel method for identifying an individual who

Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in

N-PSDB; ADQ38551.

Claim 10; SEQ

ID NO 1042; 145pp; English

the individual's nucleic acids.

Query Match Best Local

100.0%;

Score 49; Pred. No.

DB 8;

Length 1258;

Sequence 1258 AA;

CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the mucleotide sequences given in the specification in the individual's curvature risk for developing myocardial infarction in the individual's curvature tax presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's curvature risk for myocardial infarction in the individual. The invention CC altered risk for myocardial infarction in the individual. The invention CC contiguous nucleotides where one of the nucleotides is an SNP given in the specification; an isolated polyment in the specification; an isolated polyment of the amino CC comprising an amino acid sequence given in the specification; an antibody that specification and which is between about 16 and 1000 nucleotides in CC specification and which is between about 16 and 1000 nucleotides in CC specification and which is between about 16 and 1000 nucleotides in CC splynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the containing an SNP in a nucleic acid, comprising the containing an SNP in a nucleic acid, comprising the containing an SNP in a nucleic acid, comprising the containing an supplication method is useful in identifying an individual who has an increased or CC method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This sequence was not shown in the specification. The sequence has come from cCC an electronic sequence listing downloaded from the WIPO website.

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RESULT 18
ADQ39379
ID ADQ39
XX ADQ39
XX ADQ39
XX IB-NO
XX Myoca
KW Myoca
KW Cardii
XX Homo
XX WO200
XX Homo
XX IB-JU
XX 22-DE
XX 20-DE
PR 10-ME
PR 10-ME
PR 30-ME
PR 30-SE
XX APPI
XX APPI
XX APPI
XX WPI;
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  WPI; 2004-533949/51
                                                                       20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453115P.
30-ARR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                   Human myocardial infarction-associated gene derived protein, SEQ ID 1042
                         Cargill M,
                                                                                                                                                                                  WO2004058052-A2
                                                                                                                                                                                                         Homo sapiens
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                                                                                                                                                                                                                                                                                            18-NOV-2004
                                                                                                                                                                                                                                                                                                                    ADQ39379;
                                                                                                                                                                                                                                                                                                                                           ADQ39379 standard; protein; 1267 AA
                                                (APPL-) APPLERA CORP.
                                                                                                                                  22-DEC-2003; 2003WO-US040978.
                                                                                                                                                            15-JUL-2004.
                                                                                                                                                                                                                                          Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                      873 NLSELHPYL 881
                                                                                                                                                                                                                                                                                                                                                                                                                          1 NLSELHPYL 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Similarity 9; Conserv
                                                                                                                                                                                                                                gene therapy;
                         Devlin JJ,
                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                 human
                          Iakoubova 0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CC has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's cultured risk for myocardial infarction in the individual's cultured risk for myocardial infarction in the individual. The invention comprises an isolated nucleic acid molecule comprising at least the specification or its complement and encoding any one of the amino comprising an amino acid sequence given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antipen-binding comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in composition and which is between about 16 and 1000 nucleotides in composition and which is between about 16 and 1000 nucleotides in composition and which is between about 16 and 1000 nucleotides in composition and the containing an SNP given in the color acid molecule; a method of detecting a variant polypeptide; and a containing an identifying an agent useful in treating or preventing composition for treating or preventing and infarction and for preparing and composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This cased or for the form containing and composition for treating or preventing myocardial infarction. This
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Best Local
                                                                                                                                                                                                                                            Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        associated gene containing one or more SNP's of the invention. Note: The sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
28-MAR-2001; 2001US-0279495P
21-MAY-2001; 2001US-0292544P
                                                                                                                                                                                                                                                                                                                                           Human expressed protein tag (EPT) #1909
                                                                                                                                                                                                                                                                                                                                                                                       29-JAN-2003 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1267 AA;
                                                           28-MAR-2002; 2002WO-US009671.
                                                                                                   10-OCT-2002
                                                                                                                                           WO200278524-A2
                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                         adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABU05243 standard; protein; 1304 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               relates to a novel method for identifying an
                                                                                                                                                                                                                         sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 49; DB Pred. No. 1.3;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CC The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide. The polypeptide is also useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                         Translational profiling; expressed protein tag; EPT; kinase; pho protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
28-MAR-2001; 2001US-0279495P
21-MAY-2001; 2001US-0292544P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1304 AA;
                                              28-MAR-2002; 2002WO-US009671.
                                                                                                                 WO200278524-A2
                                                                                                                                                                                                                                                                               Human expressed protein tag (EPT) #1907.
                                                                                                                                                                                                                                                                                                                 29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                               ABU05241
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                sapiens
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9; Conserv
                                                                                                                                                                                                                                                                                                                                                                             standard; protein; 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 1909; 134pp; English.
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2001US-0326370P.
2001US-0336780P.
2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                 (first entry)
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Pred. No.
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                                                                                                                                                                                                                                              phosphatase;
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919 NLSELHPYL

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RESULT 21
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ID ABU05244
ID ABU0524
AC ABU05
XX ABU05
XX Trans
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KW receg
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XX ABU05
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KW rece

28-MAR-2001; 2001US-0279495P. 21-MAY-2001; 2001US-0292544P.

28-MAR-2002; 2002WO-US009671.

WO200278524-A2

Homo sapiens

Translational profiling; expressed protein tag; EPT; kinase; protease; protease inhibitor; transporter; cytoskeletal prote receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gast adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.

protein; gastric

phosphatase;

Human expressed protein tag

(EPT) #1910.

29-JAN-2003

(first

ABU05244 standard; protein; 1304 AA

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                                                                                                            Query Match
Best Local S
Matches 9
                                                                                                                                                           transporter, cytoskeletal protein, receptor of transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MiC-binding polypeptide. The polypeptides and polypurcleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from MIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-AUG-2001; 2001US-0310801P
01-OCT-2001; 2001US-0326370P
04-DEC-2001; 2001US-0336780P
20-FEB-2002; 2002US-0358985P
                                                                                                          Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention describes a purified polypeptide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chicz
                                                                                                                                            ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             treating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            leukemia.
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                                   l Similarity
9; Conserv
 1 NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                  of a kinase, phosphatase, er, cytoskeletal protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tomlinson
                                     Conservative
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   φ
                                                      100.0%;
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                                                    Score 49;
Pred. No.
                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                               polypeptide, which comprises a protease, protease inhibitor, receptor or transcription factor genic composition for eliciting
                                                      DB
1.4;
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                                                                     Length 1304;
                                       Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a purified polypeptide, which comprises a configuration of a kinase, phosphatase, protease, protease inhibitor. The transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypunucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local
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01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-035780P.
20-FEB-2002; 2002US-0358985P.
   13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                             protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorde
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human protein tyrosine phosphatase #26.
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                                                                                               13-FEB-2003; 2003WO-EP001446
                                                                                                                                                                                                                            WO2003068984-A2
                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                          cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAY-2004
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                      abnormality; enzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 1910; 134pp; English
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                          proliferation; cancer;
disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1.4;
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RESULT 23
ADP65158
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         phosphatase (PTP) that is reversibly oxidized in a cell by: (i)

Subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP conditions that cause reversible oxidation of PTP; (ii) isolating PTP contains that cause reversible oxidation of PTP; (ii) isolating PTP contains that cause reversible sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where conditions the search of these activities are given. The method is used to identify creversibly oxidized PTP, also to identify agents that: (a) reversibly condify such PTP; or (b) alter inducible signalling pathways in which PTP care involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); conditions of the ptp conditions. This sequence represents one of the PTP enzyme of the conventions.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               screening
cancer or
                                                                31-OCT-2002; 2002WO-US035433
                                                                                                                                                                                                                                                autoimmune disease; arthritide; gene expression analysis;
rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumati
antiarthritic; osteopathic; antigout; antiinflammatory; dermatological;
                                                                                                                                                                                                                                                                                                                    Human protein
                                                                                                                                                                                                                                                                                                                                                                                                                     ADP65158 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2003-712572/67.
N-PSDB; ADL16229.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tonks NK,
                               31-OCT-2001; 2001US-0336220P
                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                      12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to a method for identifying a protein tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure; SEQ ID NO 79; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                  WO2003072827-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (COLD-) COLD SPRING HARBOR LAB
(CEPT-) CEPTYR INC.
                                                                                                                                                                                                                  ibromyalgia; osteoarthritis; gout;
                                                                                                                                                                                                                                  mmunomodulatory; lupus; ankylosing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                    tyrosine phosphatase,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 49; DB 'Pred. No. 1.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                  spondylitis; Fibrositis; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                    receptor type,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        7;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1304;
                                                                                                                                                                                                                                                                                                                    'n
                                                                                                                                                                                                                                                                                                                    isoform
                                                                                                                                                                                                                                                                     antirheumatic;
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(CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT.

of.

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RESULT 24
ADM67209
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC patient sample containing mRNA, analysing gene expression using the mRNA CC that results in a gene expression signature of the mRNA, and using that CC gene expression signature to diagnose or analyse the autoimmune disease CC or arthritides in the patient, where gene expression of at least 60% of CC the genes correlates with that of the gene signature. The invention CC further comprises: a treatment of rheumatoid arthritis; identification of CC genes for targeting in the treatment of rheumatoid arthritis in a mammal; an CC array or gene chip, specific for rheumatoid arthritis; diagnosis or CC analyses of autoimmune disease or rheumatoid arthritis; diagnosis or CC induced arthritis; and reducing the symptoms associated with collagen-CC induced arthritis; and reducing the symptoms associated with collagen-CC induced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirhuumatic, antiarthritic, osteopathic, CC antigout, antiinflammatory, dermatological, and immunomodulatory. The CC methods and compositions of the present invention are useful for CC diagnosing and treating autoimmune disease or arthritides, such as CC rheumatoid arthritis, lupus, ankylosing spondylits, fibrositis, and an CC immune disease caused by an infectious agent. This sequence represents a CC introcompality of the genes used in the analysis and treatment of coin the specification. It has been supplied in an electronic format from CC content of the composition of arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from CC content from the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                               human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes, adipogenesis; hypertension; cardiovascular disease; anorectic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia a
                                                                                                                                                              adipogenesis;
antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1304 AA;
29-JUL-2003; 2003WO-US023684.
                                        05-FEB-2004
                                                                                 WO2004011618-A2
                                                                                                                                                                                                                                                                   Human adipocyte specific leukocyte common antigen protein SeqID 563
                                                                                                                                                                                                                                                                                                             03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                        ADM67209 standard; protein; 1304 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel method for diagnosing and analysing anticontrol of the method comprises obtaining a anticol of the mean and the mean and the mean and the mean are expression using the mean and the mean are expression using the mean are expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page; 56pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   GENBANK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hirsch R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   919
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        1 NLSELHPYL 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   άN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NLSELHPYL 927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Thorton SL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   002829
                                                                                                                                                              hypotensive;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                leukocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 49; DB
Pred. No. 1.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 7; Length 1304;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0;
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ABO84455
ID ABO8
XX ABO8
AC ABO8
XX 18-N
XX 18-N
XX Humm
XX Humm
XX Hymg
XX Homm
XX Hom
XX 19mg
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XX 111-1
PR 114-1
PR 113-1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RESULT 25
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention describes performing differential gene expression analysis between the white adipose tissue (MAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of
14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-00388888.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -obesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistaric to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      This invention relates to a novel method for over-expressed in adipose tissue and as such
                                                                                                                            02-SEP-2004.
                                                                                                                                                                                                                                                   Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                                                                                                                                                                                                     Human cancer-associated protein HP13-011.2.
                                                                                                                                                                                                                                                                                                                            18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                             ABO84455;
                                                                                                                                                                                                                                                                                                                                                                                             ABO84455 standard; protein; 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 a murine adipocyte specific protein sequence of the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 563; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JUL-2002; 2002US-0398785P.
12-JUN-2003; 2003US-0478206P.
                                                                                       17-FEB-2004;
                                                                                                                                                              WO2004074320-A2
                                                                                                                                                                                                                                  lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-143846/14
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      919 NESELHPYL 927
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                       2004WO-US004730
                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 49; D
100.0%; Pred. No. 1.
tive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sayed AMD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                멂
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        identifying genes that are it provides targets for anti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1304;
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Page
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ADQ39380
ID ADQ3
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AC ADQ:
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AC ADQ:
XX
DT 18-1
XX
KW Myo
KW Car
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      contriguous nucleotides of any of the 23 polymucleotide sequences given coin the specification, or its complement. The nucleic acid encode cancer-the isolated proteins. Also included are an expression vector comprising the above recombinant nucleic acid of expression vector, a microarray for detecting crecombinant nucleic acid corexpression vector, a microarray for detecting cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the 95 comprising the above polypeptide (encoded within CC an open reading frame of a CA sequence selected from any of the 95 complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above composition and a pharmaceutical composition comprising the above entibody and a pharmaceutical composition comprising the above entibody and a pharmaceutical excipient, a kit for detecting cancer cells in an individual, a method for inhibiting growth of cancer cells in an cell comprising the above polypeptide (or their fragments) the above polypeptide (a polynucleotide or polypeptide (or their fragments), methods of screening composition and methods for detecting cancer cells in an individual, an electronic library comprising the above polypeptide (a polypeptide in a test cell sample, a centivity of a CA protein (CAP), methods for detecting cancer cells in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and cell esquence data for this patent did not form part of the printed center. The promposition and methods are useful for detecting, which is the composition of the printed center of the printed ce
                                                                                                                                                                                                                                                                                            RESULT 26
                                                                                                                                                                                                                                                                                                                                                                                                                                                              Best Loc
Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                              Human myocardial infarction-associated gene derived protein, SEQ ID 1043
                                                                                                                                                18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      claim 18; seqid 147; 310pp; English.
                           cardiant; gene therapy;
                                            Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                          ADQ39380 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (SAGR-) SAGRES DISCOVERY INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2004-652914/63.
                                                                                                                                                                                                                                                                                                                                                                    919
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                 1 NLSELHPYL 9
                                                                                                                                                                                                                                                                                                                                                                    NLSELHPYL
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                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                    927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%; Score 49; DB 8; Length 1304; 100.0%; Pred. No. 1.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
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RESULT 27 ADQ39375

ij

ADQ39375 standard;

protein; 1306

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ADQ39375;

18-NOV-2004

(first entry)

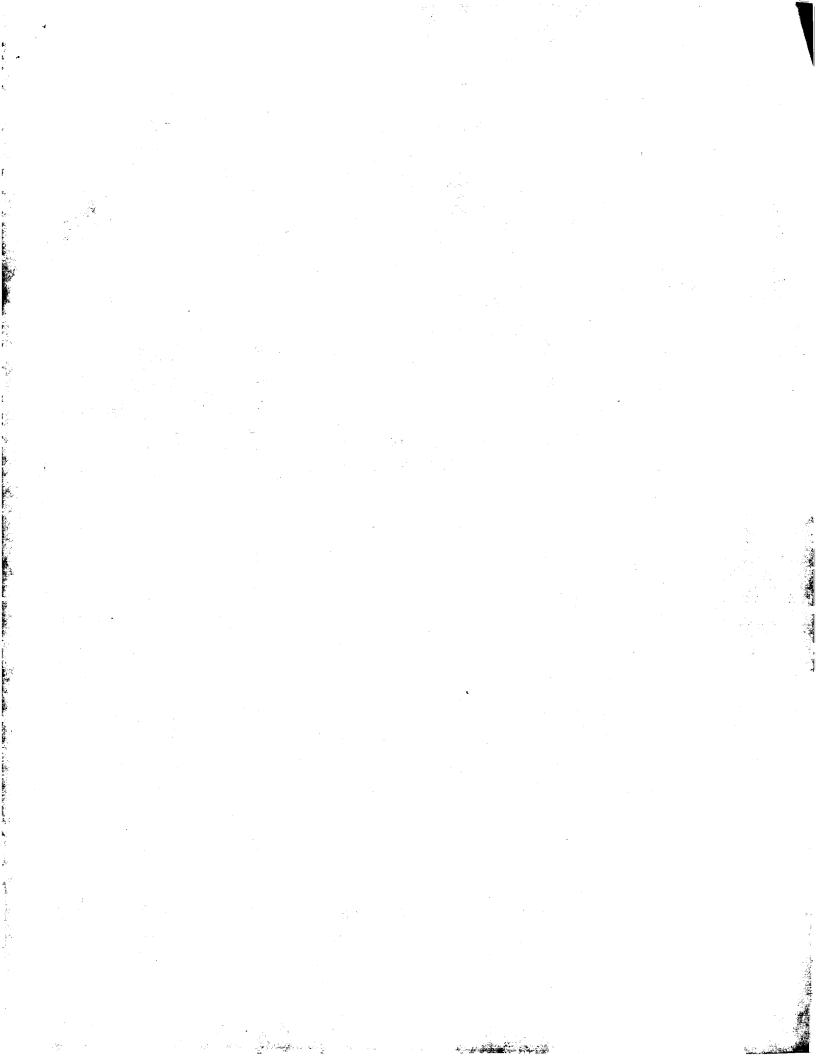
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SXXXXXX
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                                                                                                                                                                                                                                                                                                                                                                                  Comprising an amino acid sequence given in the specification; an antibody fragment; an amplificat polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's content risk for myocardial infarction in the individual shall be altered risk for myocardial infarction in the individual. The invention contributes in infarction in the individual shall be altered risk for myocardial infarction in the individual. The invention contributes in an isolated mucleic acid molecule comprising at least contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino contributes of the specification in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody comprising an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in concleic acid molecule; a method of detecting an SNP in a concleic acid molecule; a method of detecting an snP in a nucleic acid, comprising the concleic acid molecule; a method of detecting an snP in a concleic acid molecule; a method of detecting an snP in a myocardial infarction. The novel detection method has cardiant activity.

The myocardial infarction for the invention may be used in cene therapy. The
                                                                                       Matches
                                                                                                            Query Match
Best Local
                                                                                                                                                                          Sequence 1304 AA;
                                                                                                                                                                                                                                        The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 10; SEQ ID NO 1043; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-DEC-2002; 2002US-0434778P:
10-MAR-2003; 2003US-0453135P:
30-APR-2003; 2003US-0466412P:
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                     an electronic sequence listing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-2003; 2003WO-US040978
919 NLSELHPYL
                                         1 NLSELHPYL
                                                                                  9;
                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Devlin JJ,
                                                                                       Conservative
927
                                           ø
                                                                                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Iakoubova
                                                                                     0;
                                                                                  Score 49; DB 8
Pred. No. 1.4;
0; Mismatches
                                                                                                                                                                                                                     downloaded from the
                                                                                                                              8
                                                                                       0
                                                                                                                              Length 1304;
                                                                                                                                                                                                                          WIPO
                                                                                                                                                                                                                          website
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                                                                                       Gaps
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The invention relates to a novel method for identifying an individual who comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an continuous nucleotides where one of the specification in the individual's contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequence given in the specification; an isolated polypoptide comprising at least comprising an amino acid sequence given in the specification; an isolated polypoptide comprising an antibody that specificatly binds to the polypoptide or its antigen-binding comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in clength; a kit for detecting an SNP in a nucleic acid molecule; a method of detecting a SNP in a nucleic acid molecule; a method of detecting a variant polypoptide; and a nucleic acid molecule; a method of detecting a variant polypoptide; and a nucleic acid is useful in identifying an individual who has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or sequence represents the protein of a human myocardial infarction. This sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                    Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                         Sequence 1306 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              20-DEC-2002; 2002US-0434178P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 10; SEQ ID NO 1038; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; ADQ38547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-533949/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cargill M, Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (APPL-) APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  15-JUL-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Myocardial infarction; detection; single nucleotide polymorphism; SNP;
921
                                              1 NLSELHPYL 9
                                                                                                                                    Similarity 9; Conserv
NLSELHPYL
                                                                                                                                 100.0%; ilarity 100.0%; Conservative 0
929
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Iakoubova 0;
                                                                                                                                        <u>.</u>
                                                                                                                                                                     Score 49; DB 8; Pred. No. 1.4;
                                                                                                                                        Mismatches
                                                                                                                                    ٥,
                                                                                                                                                                                                     Length 1306;
                                                                                                                                        Indels
                                                                                                                                    0,
                                                                                                                                 Gaps
                                                                                                                                        0
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Search completed: May 3, 2005, 07:29:32 Job time : 53 secs

밁 S



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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model
Run on:
May 3, 2005, 05:49:25; Search time 7.43243 Seconds
(without alignments)
129.455 Million cell updates/sec

Title:
Perfect score: 53
Sequence:
1 VNLSELHPYL 10
Scoring table:
BLOSUM62
Gapop 10.0, Gapext 0.5
Searched:
283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters:
283416
Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Listing first 45 summaries

Database:
PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	% Query Match Length DB	; ₩	ID	Description
1	53	100.0	1304	- ;	A46546	leukocyte common a
2	42	79.2	905	N	S29329	hypothetical prote
w	41	77.4	327	μ	S76143	probable aldehyde
4	40	75.5	1237	N	A54080	protein-tyrosine-p
U	38	71.7	316	N	A59021	aldehyde reductase
σ	38	71.7	579	N	S11027	L-ascorbate oxidas
7	38	71.7	794	2	T39171	probable peroxisom
8	37	69.8	277	۲	A45961	2,5-diketō-D-gluco
9	37	69.8	280	N	C86780	oxidoreductase ymg
10	37	.69.8	289	N	AE0660	probable oxidoredu
11	37	69.8	289	N	B90671	probable reductase
12	37	69.8	294	N	F85521	probable dehydroge
13	37	69.8	295	٢	S30383	morphine 6-dehydro
14	37	69.8	779	N	S57805	aconitate hydratas
15	37	69.8	2910	N	T42214	otogelin - mouse
16	36	67.9	277	Ν	T34993	probable oxidoredu
17	36	67.9	302	N	A34406	aldehyde reductase
18	36	67.9	315	j.u	A35452	
19	36	67.9	316	Ч	A39763	
20	36	67.9	316	۲	A60603	
21	36	67.9	316	N	I49484	aldehyde reductase
22	36	67.9	322	N	T49435	aldo-keto reductas
23	36	67.9	325	N	T39169	probable oxidoredu
24	36	67.9	587	۲	KSKVAO	L-ascorbate oxidas
25	36	67.9	620	N	S55086	probable membrane
26	36	67.9	780	N	T52543	aconitate hydratas
27	36	67.9	781	ν	A35544	aconitate hydratas
28	36	67.9	781	N	S57528	aconitate hydratas
၁	<u>بر</u>	67.9	1273	مب	IDRILI	

45	44	43	42	41	40	39	38	37	36	35	ω 4	ω ω	32	31	30
35	<u>ა</u>	35	35	35	35	35	35	35	35	35	35	35	35	36	36
66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	66.0	67.9	67.9
1286	1190	841	833	633	590	581	552	452	335	277	244	224	101	1493	1291
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	_
B71413	T38636	T38703	S50225	T06703	S40707	S09140	A51027	G83713	S64421	D89964	T40881	T04246	C75074	S49777	A28334
hypothetical prote	tat binding homolo	hypothetical prote	potassium transpor	hypothetical prote	hypothetical prote	coII intron protei	L-ascorbate oxidas	magnesium (Mg2+) t	hypothetical prote	hypothetical prote	hypothetical prote	hypothetical prote	periplasmic divale	probable membrane	protein-tyrosine-p

ALIGNMENTS

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A;Start
C;Superf
C;Keywor
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C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                  C;Species: Synechocystis sp. (strain PCC 68 A;Variety: PCC 6803 #sequence_revision 10-Sep-1999 #text_change 16-Aug-2004 C;Accession: S76143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Cross-references: GDB:119768; OMIM:151460
A;Map position: 1q31-1q32
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC>F;697-899/Domain: protein-tyrosine-phosphatase homology <PPP>F;657-899/Domain: protein-tyrosine-phosphatase homology <PPP>F;651/Active site: Cys (phosphocysteine intermediate) #status predicted
                                                                                                                                                                                                                                                                                            R;Kaneko, T.; Sato, S.; Kotani, H.; Tanaka, A.; Asamizu, E.; Nakamura, Y.; Miyajima, N.; O, K.; Okumura, S.; Shimpo, S.; Takeuchi, C.; Wada, T.; Watanabe, A.; Yamada, M.; Yasuda DNA Res. 3, 109-136, 1996
A;Title: Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis
                                                                                                                                                                                                                                                                                                                                                                                                                                               probable aldehyde reductase (EC 1.1.1.-) - Synechocystis sp.
C;Species: Synechocystis sn.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Pereira, A.; Cuypers, H.; Gierl, A.; Schwarz-Sommer, Z.; Saedler, EMBO J. 5, 835-841, 1986
A;Title: Molecular analysis of the En/Spm transposable element syst A;Reference number: $28365
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Zea mays (maize)
C;Date: 22-Nov-1993 #sequence_revision 01-Dec-1995 #text_change 09-Jul-2004
C;Accession: S29329
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      밁
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                                                                                                                            A;Note:
                                                                                                                                                                      A;Residues:
                                                                                                                                                                                                                                      A; Accession:
                                                                                                                                                                                                                                                         A;Reference number: S74322; MUID:97061201; PMID:8905231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-905 <P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Accession: S29329
A;Status: preliminary; translation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Gene: GDB: PTPRC; CD45
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Matches
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                                           Keywords: oxidoreductase
                                                                                                                          Cross-references: UNIPROT:P74308; EMBL:D90914; GB:AB001339; NID:g1653477; PIDN:BAA1840 Note: the nucleotide sequence was submitted to the EMBL Data Library, June 1996
                                                                                                                                                                                     Molecule type: DNA
                                                                                                                                                                                                             Status: nucleic
                                                                                                                                                                                                                                                                                                                                                            Accession: S76143
Kaneko, T.; Sato,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
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Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 VNLSELHPY 9
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rences: UNIPROT:Q41865;
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10; Conserv
                                                                                                                                                                  1-327 <KAN>
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                                                                                                                                                                                                                                      S76143
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                                                             Aldehyde reductase
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                                                                                                                                                                                                                acid sequence not shown; translation not shown
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            848
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77.8%;
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77.48;
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Score 41;
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Pred. No.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL: M25427
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  Length 327;
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aldehyde reductase (EC 1.1.21) [validated] - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 24-Jul-1998 #sequence revision 24-Jul-1998 #text_change 16-Aug-2004
C;Accession: A59021; A59019; S43018
R;Kubiseski, T.J.; Green, N.C.; Flynn, T.G.
Adv. Exp. Med. Biol. 328, 259-265, 1993
A;Title: Location of an essential arginine residue in the primary structure A;Fitle: Location of an essential arginine xesidue in the primary structure A;Reference number: A59021; MUID:93263021; PMID:8493902
A;Accession: A59021
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C;Date: 02-Aug-1994 #sequence_revision 02-Aug-1994 #text_change 09-Jul-2004
C;Accession: A54080; I50592
R;Fang, K.S.; Barker, K.; Sudol, M.; Hanafusa, H.
J, Biol. Chem. 269, 14056-14063, 1994
R;Moras, D.; Podjarny, A. submitted to the Brookhaven Protein Data Bank, la,Reference number: A69051; PDB:1AH4 A;Reference number: A69051; PDB:1AH4 A;Contents: annotation; X-ray crystallography, R;Rondeau, J.M.; Tete-Favier, F.; Podjarny, A.; submitted to the Brookhaven Protein Data Bank, l
                                                                                                                                                                                                                                                                                                                        A;Accession: A59019
A;Molecule type: protein
A;Residues: 2-98', D',100-316 <JAQ1>
A;Experimental source: eye lens
                                                                                                                                                                                                                                                                                                                                                                                                                                                      R;Jaquinod, M.; Potier, N.; Klarskov, K.; Reymann, J.M.; Sorokine, O.; Kieffer, S.; I Bur. J. Blochem. 218, 893-903, 1993
A;Title: Sequence of pig lens aldose reductase and electrospray mass spectrometry of A;Reference number: S43018; MUID:94109388; PMID:8281941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:P80276; GB:U46065; NID:g1184819; PIDN:AAC48515.1; PID:g11848 A;Experimental source: adult brain A;Note: submitted to Genbank January 1996 R;Jaqquinod, M.; Potier, N.; Klarskov, K.; Reymann, J.M.; Sorokine, O.; Kieffer, S.; Bart R;Jaqquinod, M.; Potier, N.; Klarskov, K.; Reymann, J.M.; Sorokine, O.; Kieffer, S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphatas F;528-1170/Domain: leukocyte common antigen cytosolic domain homology <LAC> F;610-834/Domain: protein-tyrosine-phosphatase homology <PTP> F;610-834/Domain: protein-tyrosine-phosphatase homology <PTP> F;786/Active site: Cys (phosphocysteine intermediate) #status predicted
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A;Residues: 1-1237 <FAN>
A;Crose-references: UNIPROT:091976; EMBL:Z21960; NID:g510510; PIDN:CAA79972.1; PID:g5105
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol
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                                                                                                                                                                                          A; Molecule type: protein A; Residues: 2-12 < JAQ2 >
                                                                                                                                                                                                                                                            A_i:Note: the authors found that a disulfide bond between A_i:Accession: S43018
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: mRNA
A; Residues: 1-316 < KUB>
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Matches 8; Conserv
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8; Conserv
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80.0%;
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Pred. No. 34;
1; Mismatches
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   2.0 angstroms, 1; Reymann, J.M.; February 1993
                                                                                                                                 April 1997
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                                    residues; Barth, P
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P.; Biellmann, J.
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R;Connor, R.; Churcher, C.M.; Wood, V. submitted to the EMBL Data Library, Fe A;Reference number: Z21832
A;Accession: T50376
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-794 <CCC2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: UNIPROT:P24792; EMBL:X55779; NID:g18251; PIDN:CAA393
A;Accession: S36936
A;Molecule type: protein
A;Residues: 31-48 <ESA>
C;Superfamily: laccase
C;Superfamily: laccase
C;Keywords: oxidoreductase
C;Keywords: oxidoreductase
F;375-569/Domain: carboxyl-terminal beta-barrel #status predicted <BB3>
F;49-23/Disulfide bonds: #status predicted
F;90,478/Binding site: copper (His) (type 2) #status predicted
F;90,478/Binding site: copper (His) (type 2) #status predicted
F;91,11-568/Disulfide bonds: #status predicted
F;111-568/Disulfide bonds: #status predicted
A;Cross-references: UNIPROT:042890;
A;Experimental source: strain 972h-;
C;Genetics:
A;Gene: SPDB:SPAC8E4.06
A;Map position: 2
C;Keywords: peroxisome
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A;Contents: annotation; X-ray crystallography, 3.
C;Genetics:
A;Gene: ALR2
C;Superfamily: Aldehyde reductase
C;Keywords: acetylated amino end; oxidoreductase
F;2-316/Product: aldehyde reductase #Btatus exper
                                                                                                                                                                                                                                                                          probable peroxisomal copper amine oxidase [imported] - C;Species: Schizosaccharomyces pombe C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #tex C;Accession: T50376; T39171
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Eur. J. Biochem. 191, 537-541, 1990
A;Title: Molecular cloning and nucleotide sequence of full-length
A;Reference number: S11027; MUID:90361033; PMID:2143984
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Best Local S
Matches 7
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193,392,473,542/Binding site: substrate (Trp,
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Residues: 1-579 <EUR>
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;Species: Cucurbita cv. Ebisu Nankin
;Date: 21-Nov-1993 #sequence_revision 10-Nov-1995 #text_change
;Accession: S11027; S36936
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70.0%;
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Pred. No. 18;
1; Mismatches
                                                                                   EMBL:AL021815; cosmid c8E4
                                                                                                                                                                                                                                  V.; Barrell
February 19
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                                                                                                                                                                                                                                                                                          03-Dec-1999 #text_change 09-Jul-2004
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                                                                                                         PIDN: CAA16999.1; GSPDB: GN00067;
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                 probable oxidoreductase STY1388 [imported] - Salmonella en C;Species: Salmonella enterica subsp. enterica serovar Typ A;Note: this species has also been called Salmonella typhi C;Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_C;Accession: AE0660
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A;Gene: ymgk
C;Superfamily: Aldehyde
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                                                                                                                                                                                       A; Experimental C; Genetics:
                                                                                                                                                                                                                                                                                        A; Title: The complete genome sequence of the lactic acid bacterium A; Reference number: A86625; MUID:21235186; PMID:11337471
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: UNIPROT:P15339; GB:M21193; NID:g144962; PIDN:AAA23291.1; PID:g14496:C;Keywords: oxidoreductase
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A; Accession: A45961
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C;Accession: A45961
RESULT 10
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                                                                                                                                                                                                                                                             A; Status: preliminary
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A; Residues: 1-277 <GRI>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       R;Grindley, J.F.; Payton, M.A.; van de Pol, H.; Hardy, K.G. Appl. Environ. Microbiol. 54, 1770-1775, 1988
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Species:
                                                                                                                                                                                                                                  A;Residues: 1-280 <STO>
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Pred. No.
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Pred. No.
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James, K.D.;

Thomson,

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09-Nov-2001 #text_change

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Salmonella enterica subsp.

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Nature 413, 848-852, 2001
Nature 413, 848-852, 2001
A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.;
A;Title: Complete genome sequence of a multiple drug resistant
A;Title: Complete 3B0502; MUID:21534947; PMID:11677608
                          A; Experimental C; Genetics:
                                                                                                                A; Molecule type: DNA
A; Residues: 1-294 <STO>
                                                                                                                                                                                             C;Accession: F85521

R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; I iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamon Nature 409, 529-533, 2001

A;Title: Genome sequence of enterohemorrhagic Escherichia coli O157:H7

A;Reference number: A85480; MUID:21074935; PMID:11206551

A;Accession: F85521
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A;Gene:
                                                     A;Cross-references: UNIPROT:Q8X6G0; GB:AE005174; A;Experimental source: strain O157:H7, substrain
                                                                                                                                                                                                                                                                                                                                                                                           probable dehydrogenase Z0377 [imported] - Escherichia coli (strain O157:H7, C;Species: Escherichia coli (c;Species: Escherichia coli (c;Date: 16-Feb-2001 #text_change 16-Aug-2004 C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #sequen
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A; Residues: 1-289 < HAY>
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A,Reference number: A99629; MUID:21156231; PMID:11258796
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C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 16-Aug-2004
C;Accession: B90671
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               日
                          C;Superfamily: iron-responsive element-binding protein
C;Keywords: carbon-oxygen lyase; hydro-lyase; mitochondrion;
                                                                                  A; Genome: nuclear A; Introns: 57/2
                                                                                                                                           A;Cross-references: UNIPROT:P49609; C;Genetics:
                                                                                                                                                                                                   A; Molecule type: DNA
A; Residues: 1-779 < ZHO>
                                                                                                                                                                                                                                                                                      A; Reference number: S57805;
A; Accession: S57805
                                                                                                                                                                                                                                                                                                                                           Plant Mol. Biol. 28, 635-6
A; Title: Characterization
                                                                                                                                                                                                                                                                                                                                                                                                    R; Zhou,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Species: Gracilaria verrucosa, Date: 28-Oct-1995 #sequence_revision
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Function
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Sion: Salver Y.H.; Ragan, M.A. Y.H.; Ragan, M.A. Mol. Biol. 28, 635-646, 1995 Mol. Biol. 28, 635-646, 1995

MUID:95375228;

nuclear gene encoding mitochondrial:95375228; PMID:7647296

aconitase

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the ma

EMBL:U17709; NID:g600170;

PIDN: AAA80494.1;

PID: 96001

tricarboxylic

acid

cycle

names: aconitase

precursor

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alga

(Gracilaria verrucosa)

03-Nov-1995

#text_change

09-Jul-2004

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RESULT 13
S30383
                                                                                                 C;Superfamily: Aldehyde
                                                                 Matches
                                                                        Query Match
Best Local
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nes 7; Conserv
                                 165
                                 VNQVELHPY 173
                                                VNLSELHPY
                                                                 Conservative
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                                                                                                 reductase
                                                                        69.8%;
                                                                 0
                                                                        Score 37;
Pred. No.
                                                                 Mismatches
                                                                         DB
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                                                                               Length 294;
                                                                 Indels
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                                                                 Gaps
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Biochem. J. 274, 875-880, 1991
A;Title: Microbial degradation of the morphine alkaloids. Purification and
A:Reference number: S14366; MUID:91190106; PMID:2012614
                                                                                                                                                                              A;Description: catalyses the oxidation of morphine C;Superfamily: Aldehyde reductase C;Keywords: alkaloid degradation; monomer; NADP; ox
                                                                                                                                                                                                                                                                                                                                             A; Experimental source: M10
                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: protein
A; Residues: 2-26 < BRU>
                                                                                                                                                                                                                                                                                                                                                                                                                A;Reference number: S14366;
A;Accession: S14366
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Bruce, N.C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Experimental source: strain M10 R; Bruce, N.C.; Wilmot, C.J.; Jordan, K.N.; Stephens, L.D.G.; Lowe,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: DNA
A; Residues: 1-295 <WIL>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Title: Nucleotide sequence and over-expression of morphine A;Reference number: S30383; MUID:93199531; PMID:8452544 A;Accession: S30383
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 16-Aug-2004 C;Accession: S30383; S14366 R;Willey, D.L.; Caswell, D.A.; Lowe, C.R.; Bruce, N.C. Biochem. J. 290, 539-544, 1993
                                                                                                                                                                                                                                                                       A; Genome: plasmid pMdh7.2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Cross-references: EMBL:M94775
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        morphine 6-dehydrogenase (EC 1.1.1.218) - Pseudomonas putida plasmid pMdh7.2
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RESULT 15
T42214
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A;Molecule type: mRNA
A;Residues: 1-2910 <COH>
A;COH>
A;Cross-references: UNIPROT:055225; EMBL:U96411; NID:g2760883; PID:g2760884; PIDN:AAB965
A;Experimental source: strain BALB/C
A;Note: component of all the acellular membranes of the inner ear
C;Superfamily: von Willebrand factor type A repeat homology; von Willebrand factor type
                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Cohen-Salmon, M.; El-Amraoui, A.; Leibovici, M.; Petit, C.
Proc. Natl. Acad. Sci. U.S.A. 94, 14450-14455, 1997
A;Title: Otogelin: A glycoprotein specific to the acellular membranes of the inner ear.
A;Reference number: Z22079; MUID:98070772; PMID:9405633
A;Accession: T42214
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      otogelin - mouse

N;Alternate names: mucin-like extracellular matrix protein

C;Species: Mus musculus (house mouse)

C;Date: 03.-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 16-Aug-2004

C;Accession: T42214
Search completed: May 3, 2005, 06:15:24 Job time : 11.4324 secs
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Best Local Similarity 87.5%;
Matches 7; Conservative
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Best Local Similarity 60.0%;
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Q8EXB7
Q41B65
Q6ESU0
Q7ZWA4
Q7ZWA4
Q7ZWA4
Q75PE5
Q6ESU1
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Q6c210 yarrowia li
Q8c210 yarrowides
Q841v1 bacteroides
Q64tx8 bacteroides
Q9fve7 glycine max
Q8311 bacteroides
Q971x4 sulfolobus
P80276 sus scrofa
Q6cs19 kluyveromyc
P24792 cucurbita m
Q89890 clostridium
Q42890 schizosacch
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Q6ed62 actus nigri
P08575 homo sapien
P08587 bacteroides
Q64pt4 bacteroides
Q75fe5 leptospira
Q8ex87 leptospira
Q8ex87 leptospira
Q41865 zea mays (m
Q68su0 pleurotus d
Q7zwa4 brachydanio
Q6bvx2 debaryomyce
P74308 synechocyst
Q8ijf6 plasmodium
Q96sj1 homo sapien
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Q96id9 homo sapien
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Q961976 gallus gall
Q8axr5 lactobacill
Q6c210 yarrowia li
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1 VNLS	ch 1 Simi 10;	ro; IPR00 ro; IPR00 ro; IPR00 ro; IPR00 pr00041; pP00102; pP001060; SM00060; SM000194;	ENCE FROM led=152453 oya G.E., parative; human."; ue Antige; in Ay44581 GO:0006470 GO:0006470	6, 1, 1, 000	
ANTSETHDAT ANTSETHDAT	ilarity Conserva	ro; IPR003961; FN III. ro; IPR003957; FNT-III-1; ro; IPR003595; PTPC mcti ro; IPR003595; PTPC mcti ro; IPR003597; TYR_Dhosp pro) IPR000242; TYr_PP. pr00102; Y_Dhosphatase; pr00102; Y_Dhosphatase; pr00102; Y_Dhosphatase; pr000700; PRTYPHPHTASE. sM00060; FN3; 2. sM00060; FN3; 2. sM000404; PTPC; 2. sM000404; PTPC mctif; 2. sM000404; PTPC mctif; 2. sM00404; PTPC mctif; 2. sM004; PTPC mctif; 2. sM0	DENCE FROM N.A. ntoya G.E., Vernot J.P., nmparative analysis of CI numan."; ssue Antigens 64:165-172 L, AY445818, AAS06903.1; GO:0004725; F:protein t GO:0006470, P:protein t GO:0006470, P:protein t FORTO: TERNOTIGE	~ <u>+</u> 0 333 H	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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	Score 53; DB 2; Le Pred. No. 0.69; 0; Mismatches 0;	ke. f. f. hatase. 2. 2. 2. 2. 2. 2. 3.5E_1; 2. 3.5E_1; 2. 3.5E_PTP; 2. 3.5E_PTP; 2.	atarroyo M.E.; 5 protein in primate 004). - rosine phosphatase ac	PRT; 1290 AA. Created) Last sequence update) Last annotation update) I monkey). I monkey). I; Craniata; Vertebrata; S; Platyrrhini; Cebidae;	O7NDP4 O7XWVB ASC MOUSE ASC MOUSE OBPS67 OBNSZ0 DKGB CCRSS OBCQ19 O9CG57 O9CB57 O9CHS O9CHS OPCHS OPCH
	1290; ls 0	CRC64;	context: owl tivity; IEA. ation; IEA.	Euteleostomi Aotinae; Aot	Q7ndp4 Q7xwv8 Q9epb4 Q9eps6 Q8fs67 Q8fs20 P15339 Q8cq19 Q9c967 Q9xbs1 Q9xbs1 Q9c1x5 Q8c709 Q7aha8 Q8z77a2 Q8zp71
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pfam; pF00102; Y phosphatase; 2.
prINTS; pR00700; pRTYPHPHTASE.

SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00404; PTPC; motif; 2.
pROSITE; pS50853; FN3; 2.
pROSITE; pS50853; TNR_PHOSPHATASE_1; 2.
pROSITE; pS50056; TYR_PHOSPHATASE_2; 2.
pROSITE; pS50055; TYR_PHOSPHATASE_PTP; 2.
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pROSITE; pS50055; TYR_PHOSPHATASE_PTP; 2.
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PubMed=15245371;
Montoya G.E., Vernot J.
"Comparative analysis c
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EMBL; AY445816; /
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GO; GO:0006470; /
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InterPro; IPR003961; FN III.
InterPro; IPR003957; FN III-like.
InterPro; IPR003957; FTPC motif.
InterPro; IPR00387; TYR_phosphatase.
InterPro; IPR000387; TYR_PP.
Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 2.
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InterPro; IPR008957; FN_III-like.
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Mammalia; Eutheria;
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Platyrrhini; Cebidae;
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Aotinae; Aotus.
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Aotinae; Aotus.
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RESULT 4
CD45_HUMAN
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Best Local (
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SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00194; PTPC; motif; 2.
PROSITE; PS50853; FN3; 2.
PROSITE; PS5085; FN3; 2.
PROSITE; PS50956; TYR_PHOSPHATASE_1; 2.
PROSITE; PS50955; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                             TISSUE=Lymphocytes;

MEDLINE=88061067; PubMed=2824653;

Streuli M., Hall L.R., Saga Y., Schlos
"Differential usage of three exons gen
mRNAs encoding human leukocyte common
J. Exp. Med. 166:1548-1566(1987).
                       "Distinct f
domains of
LAR.";
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P08575; Q16614; Q9HOY6;
01-AUG-1988 (Rel. 08, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
            EMBO
                                              MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tar
"Distinct functional roles of the two
                                                                                                      protein tyrosine phosphatase.";
Proc. Natl. Acad. Sci. U.S.A. 8
                                                                                                                           MEDLINE=89017162; PubMed=2845400; Charbonneau H., Tonks N.K., Walsh K.A., "The leukocyte common antigen (CD45): a
                                                                                                                                                                                       "Complete exon-intron organization antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                         MEDLINE=89009812; PubMed=2971730;
Hall L.R., Streuli M., Schlossman
                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. (ISOFORM 2), AND A MEDLINE=87275816; PubMed=2956090; Ralph S.J., Thomas M.L., Morton C.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                rissum=Placenta;
                                                                                 MUTAGENESIS
                                                                                                                                                                 UNCTION
                                                                                                                                                                                                                                                                                                         Ralph S.J., Thomas M.L., Morto
 O J. 9:2399-2407(1990)
FUNCTION: Required fo
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                                                                                                       85:7182-7186(1988)
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                                  protein
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ons generates
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 activation through the
                                              Tang M., Saito H.;
two intracellular p
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MBLL; Y000638; CAA68669.1; --
3MBL; Y00062; CAA68269.1; --
3MBL; M23496; ADD15273.2; J
3MBL; M23496; ADD15273.2; J
3MBL; M23496; ADD15273.2; J
3MBL; M23496; ADD15273.2; J
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3MBL; M23477; ADD15273.2; J
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3MBL; M23484; ADD15273.2; J
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3MBL; M23489; ADD15273.2; J
3MBL; M23489; ADD15273.2; J
3MBL; M23489; ADD15273.2; J
3MBL; M23490; ADD15273.2; J
3MBL; M23490; ADD15273.2; J
3MBL; M23490; ADD15273.2; J
3MBL; M23491; ADD15273.2; J
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MIM; 1:
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GO; GO
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InterPro;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IsoId=P08575-2; Sequence=VSP_007780; PTM: Heavily N- and O-glycosylated. SIMILARITY: Belongs to the protein-tyrosine phosphatase family. Receptor class 1/6 subfamily. SIMILARITY: Contains 2 fibronectin type III domains. SIMILARITY: Contains 2 protein-tyrosine phosphatase domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SIMILARITY: Contains 2 protein-tyrosine phosphatase DATABASE: NAME=PROW; NOTE=CD guide CD45 entry; www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 first one.
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             005001; F:transmembrane receptor protein tyr
107166; P:cell surface receptor linked signa
IPR003961; FN_III.
IPR003987; FN_III-like.
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TYR_phosphatase Tyr_PP.
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R Pfam; Provoca.

R Pfam; PF00102; Y_phosp......

R Pfam; PF00102; Y_phosp.....

R PRINTS; PR00700; PRTYPHPHTASE.

DR PROSITE; PS0085; FW3; 2.

DR PROSITE; PS00383; TYR PHOSPHATASE 1; 2.

DR PROSITE; PS50056; TYR PHOSPHATASE 2; 2.

DR PROSITE; PS50055; TYR PHOSPHATASE 7; 2.

DR PROSITE; PS50055; TYR PHOSPHATASE 7; 2.

N1ternative splicing; Antigen; Glycoprotein; Hydrolase;

N1ternative splicing; Antigen; Repeat; Signal; T-ce
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Q8RP87;
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MEDLINE=21927545; PubMed=11880608; DOI=10.1073/pnas.052710199; Baughn A.D., Malamy M.H.; "A mitochondrial-like aconitase in the bacterium Bacteroides f
                                                  Bacteroides fragilis.
Bacteria; Bacteroidetes; Bacteroidaceae; Bacteroides
NCBI_TaxID=817;
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N-linked (GlcNAc.
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C->S: Loss of act
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Protein-tyrosine phosphatase
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EMBL; AF434843; AAM10631.1; -.

RISSP; P20004; IAMJ.

GO; GO:0005739; C:mitochondrion; IEA.

GO; GO:0005739; C:mitochondrion; IEA.

GO; GO:00016829; F:lyase activity; IEA.

GO; GO:0008152; p:metabolism; IEA.

GO; GO:0008152; p:metabolism; IEA.

GO; GO:0008059; p:tricarboxylic acid cycle; IEA.

RICETPRO; IPR006278; Aconitase_Mito.

RICETPRO; IPR00130; Aconitase_Nito.

RICETPRO; IPR00130; Aconitase_Nito.

R Pfam; PF00330; Aconitase; 1.

R Pfam; PF00330; Aconitase C; 1.

R Pfam; PF00641; Aconitase C; 1.

R PFAM; PF006415; ACONITASE.

R TICRPAMS; TIGR01340; aconitase_Mito; 1.

R PROSITE; PS00450; ACONITASE 1; 1.

R PROSITE; PS0144; ACONITASE 2; 1.
                                                            Q75FE5 PRELIMINARY;
Q75FE5;
05-JUL-2004 (TrEMBLrel.:
05-JUL-2004 (TrEMBLrel.:
05-JUL-2004 (TrEMBLrel.:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Kuwahara T., Yamashita A., Hirakawa H., Nakayama H
Kuhara S., Hattori M., Hayashi T., Ohnishi Y.;
"Genomic analysis of Bacteroides fragilis reveals
inversions regulating cell surface adaptation.";
Proc. Natl. Acad. Sci. U.S.A. 0:0-0(2004).
EMBL; AP006841; BAD50497.1; -.
      Aconitate hydratase.
Name=acnA; OrderedLocusNames=LIC20249;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Aconitase protein. ORFNames=BF3755;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q64PT4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bacteria; Bacteroidetes;
Bacteroidaceae; Bacteroid
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q64PT4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=YCH46;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=817;
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7; Conserv
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70.0%;
(serogroup Icterohaemorrhagiae / serovar
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                                                                Created)
Last sequence update)
Last annotation updat
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Last annotation update)
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Pred. No.
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RA Nascimento A.L.T.O., Ko A.I., Martins B.A.L., Monteiro-Vitorello C.B.,
RA Nascimento A.L.T.O., Ko P.I., Martins B.A.L., Monteiro-Vitorello C.B.,
RA Ho P.L., Haake D.A., Verjovski-Almeida S., Hartskeerl R.A.,
RA Marques M.V., Ollveira M.C., Menck C.F.M., Leite L.C.C., Carrer H.,
RA Marques M.V., Ollveira M.C., Menck C.F.M., Leite L.C.C., Carrer H.,
RA Coutinho L.L., Degrave W.M., Dellagostin O.A., El-Dorry H.,
RA Ferro E.S., Ferro M.I.T., Furlan L.R., Gamberini M., Giglioti E.A.,
RA Goes-Neto A., Goldman G.H., Goldman M.H.S., Harzkava R.,
RA Goes-Neto A., Goldman G.H., Goldman M.H.S., Harzkava R.,
RA Jeronimo S.M.B., Junqueira-de-Azevedo I.L.M., Kimura E.T.,
RA Kuramae E.B., Lemos B.G.M., Lemos M.V.F., Marino C.L., Nunes L.R.,
RA Kuramae E.B., Lemos B.G.M., Lemos M.V.F., Marino C.L., Nunes L.R.,
RA Kuramae E.B., Lemos B.G.M., Semson M.J.G., Ferro J.A.,
RA Kuramae E.B., Lemos B.G.M., Setubal J.C., van Sluys M.A.;
"Camargo L.B.A., Kitajima J.P., Setubal J.C., van Sluys M.A.;
"Comparative genomics of two Leptospira interrogans serowars reveals
"T novel insights into physiology and pathogenesis.";

D Bacteriol. 186;2164-2172(2004).
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HSSP; P16276; 1BOJ
GG; GO:0005799; C:mitochondrion; IEA.
GG; GO:0003949; F:aconitate hydratase activity; IEA.
GO; GO:0016829; F:lyase activity; IEA.
GO; GO:0016829; P:metabolism; IEA.
GO; GO:0006152; P:metabolism; IEA.
GO; GO:0006199; P:tricarboxylic acid cycle; IEA.
InterPro; IPR006248; Aconitase C.
InterPro; IPR006248; Aconitase N.
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Best Local
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Q8EX87;
01-MAR-2003 (TrEMBLrel. 2
01-MAR-2003 (TrEMBLrel. 2
01-OCT-2003 (TrEMBLrel. 2
STRAIN=56601 / Serogroup Icterohaemorrhagiae / Serovar lai;
MEDLINE=22598143; PubMed=12712204; DO1=10.1038/nature01597;
Ren S.-X., Jiang X.-G., Zeng R., Miao Y.-G., Xu H.,
Zhang Y.-X., Xiong H., Lu G., Lu L.-F., Jiang H.-Q., Jia J., Tu Y.-F.,
Jiang J.-X., Gu W.-Y., Zhang Y.-Q., Cai Z., Sheng H.-H., Yin H.-F.,
Zhang Y., Zhu G.-F., Wan M., Huang H.-L., Qian Z., Wang S.-Y., Ma W.,
Zhang Y., Shen Y., Qiang B.-Q., Xia Q.-C., Guo X.-K., Danchin A.,
Saint Girons I., Somerville R.L., Wen Y.-M., Shi M.-H., Chen Z.,
Xu J.-G., Zhao G.-P.;
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PRODOM; PD000511; Aconitase N; 1.
TIGRPAMS; TIGR01340; aconitase_mito;
PROSITE; PS00450; ACONITASE 1; 1.
PROSITE; PS01244; ACONITASE_2; 1.
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01-OCT-2003 (TrEMBLrel. 25, Last su
Aconitate hydratase (EC 4.2.1.3).
Name=acn; OrderedLocusNames=LB327;
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NCBI_TaxID=44275;
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Bacteria; Spirochaetes;
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757 AA;
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70.0%;
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Pred. No.
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Q41865

ID Q41865

AC Q44

AC Q4

AC Q4

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DT 01

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interrogans revearc...

Nature 422:888-893(2003).

REMBL; AB011619; AANS1886.1; -.

REMBL; AB011619; AANS1886.1; -.

REG; GO:0005739; C:mitochondrion; IEA.

DR GO; GO:0005739; F:aconitate hydratase activity; IEA.

DR GO; GO:00016829; P:lyase activity; IEA.

DR GO; GO:0006152; P:metabolism; IEA.

DR GO; GO:0006099; P:tricarboxylic acid cycle; IEA.

Therpro; IPR000573; Aconitase C.

InterPro; IPR0005248; Aconitase Mito.
      RESULT 10
Q68SU0
ID Q68SU
AC Q68SU
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Pfam; PF00694; Aconitase C; 1.
PRINTS; PR00415; ACONITASE.
ProDom; PD000511; Aconitase N; 1.
TIGREAMS; TIGR01340; aconitase mito; 1.
PROSITE; PS00450; ACONITASE 1; 1.
PROSITE; PS01244; ACONITASE 2; 1.
Q68SU0 PRELIMINARY;
Q68SU0;
25-OCT-2004 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL, M25427; AAA66266.1; --
PIR; S29329; S29329.
InterPro; IPR004242; Transposase 21.
Pfam; PF02992; Transposase_21; 1.
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Pereira A., Cuypers
"Molecular analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Spercab clade; Panicoldeae; Andropogoneae; Zea.
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01-MAR-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Zea mays (Maize)
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                                                                                                                                                                                                                                                                                                                                                                    Similarity 7; Conserv
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                                                                                                                                                                                                                                                                                                         VNLSELHPY 9
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                                                                                                                                                                                                                                              VNMPELHPY
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                                                                        PRELIMINARY;
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77.8%;
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the En/Spm t
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26,
      28,
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Last annotation update)
          Created)
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                                                                                                                                                                                                                                                                                                                                                                                                   Score 42; DB
Pred. No. 56;
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Pred. No. 46;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       40D92AE7697CF878 CRC64;
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                                                                                                                                                                                                                         WEDLINE-2388257; PubMed=12477932; DOI=10.1073/pnas.242603899;

X Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

X Klausner R.D., Collins F.S., Wagner L., Shammen C.M., Schuler G.D.,

X Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

X Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

X Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

X Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

X Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

X Stapleton M., Jodin T.B., Toshiyuki S., Carninci P., Prange C.,

X Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

X Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

X Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

X Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

X Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

X Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

X Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

X Willalon D.K., McIny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

X Mitting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

X Machaeley R.W., Touchman J.W., Green E.D., Dickson M.C.,

X Hones S.J., Marra M.A.,

X Jones S.J., Marra M.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 8
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Q7ZWA4;
01-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Actinopterygii; Neopterygii; Cyprinidae; Danio.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; AY462110; AAS46750.1; -.
InterPro; IPR001395; Aldo/ket_red.
Pfam; PF00248; Aldo ket_red; I.
PRINTS; PR000069; ALDEKETRDTASE.
ProDom; PD000288; Aldo/ket_red; 1.
PROSITE; PS00062; ALDOKETO_REDUCTASE_2; 1.
SEQUENCE 280 AA; 31444 MW; FD02D7EBAEE9D615
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
STRAIN=RV95/957.30;
PubMed=15219565; DOI=10.1016/j.fgb.2004.04.005;
James T.Y., Liou S.R., Vilgalys R.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pleurotus djamor.
Bukaryota; Fungi; Basidiomycota; Hymenomycetes; Homobasidiomycetes;
Agaricales; Pleurotaceae; Pleurotus.
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ORFNames=zgc:56622;
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Fungal Genet. Biol. 41:813-825(2004).
    SEQUENCE FROM N.A.
                                                                                Jones S.J., Marra M.A.;
"Generation and initial analysis of
and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.A. 99:16
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Whole body;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      _TaxID=7955;
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8; Conserv
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80.0%;
                                                                                U.S.A. 99:16899-16903(2002)
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28,
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Teleostei;
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24;
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Ostariophysi; Cypriniformes;
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A Dujon B., Sherman D., Fischer G., Durrens P., Casaregola S.,
A Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
A Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.
A Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.
A Barnay S., Blanchin S., Beckerich J.M., Beyne E., Bleykasten C.,
A Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
A Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
A Begpons L., Fabre E., Fairhead C., Ferry-Dumazet H., Groppi A.,
A Hantraye F., Hennequin C., Jauniaux N., Joyet P., Kachouri R.,
A Kerrest A., Koszul R., Lemaire M., Lesur I., Ma L., Muller H.,
A Kerrest A., Koszul R., Lemaire M., Lesur I., Ma L., Muller H.,
A Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
A Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
A Nicaud J.M., Tekaia F., Wesolowski-Louvel M., Westhof E., Wirth B.,
A Zeniou-Meyer M., Zivanovic I., Bolotin-Fukuhara M., Thierry A.,
A Zeniou-Meyer M., Zivanovic I., Bolotin-Fukuhara M., Weissenbach J.
A Bouchier C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.
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Best Local S
Matches 8
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Submitted (MAR-2003) to the EMBL/GenBank/D
EMBL; BC049508; AAH49508.1; -.
HSSP; P06632; 1HW6.
ZFN; ZDB-GENE-030131-4758; zgc:56622.
InterPro; IPR001395; Aldo/ket_red.
Pfam; PF00248; Aldo_ket_red; I.
PRINTS; PR00069; ALDEKETEDTASE.
PROSITE; PS00798; ALDOKETO_REDUCTASE_1; 1.
PROSITE; PS00062; ALDOKETO_REDUCTASE_2; 1.
 Query Match
                  Genoscope;
Submitted (JUL-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; CR382134; CAG85661.1; -.

InterPro; IPR001395; Aldo/ket red.
Pfam; PF00248; Aldo ket red; I.
PF100128; PF00069; ALDKETRDTASE.
ProDom; PD000288; Aldo/ket red; 1.
PROSITE; PS00062; ALDKETTO_REDUCTASE_2; 1.
PROSITE; PS00063; ALDKETO_REDUCTASE_3; UNKNOWN 1.
PROSITE; PS00063; ALDKETO_REDUCTASE_3; UNKNOWN 1.
SEQUENCE 314 AA; 35221 MW; FE87A858EB8845AA—CRC64;
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25-OCT-2004
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dehydrogenase.

dehydrogenase.

dehydrogenase.

dehydrogenase.

Debaryomyces hansenii CBS767.

Bukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;

Saccharomycetales; Saccharomycetaceae; Debaryomyces.
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25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Similar to tr | Q9HGX9 Zygosaccharomyces rouxii Glycerol
                                                                                                                                                                                                                                                                                     Bouchier C., Cauur
Bouchier C., Souciet J.L.;
                                                                                                                                                                                                               SEQUENCE FROM N.A. STRAIN=CBS767;
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Pred. No.
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41;
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Length 314;
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RESULT 14
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SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

SEQUENCE FROM N.A.

MEDLINE=22255705; PubMed=12368864; DOI=10.1038/nature01097;

Gardner M.J., Hall N., Fung E., White O., Berriman M., Hyman R.W.,

Carlton J.M., Pain A., Nelson K.E., Bowman S., Paulsen I.T., James

Eisen J.A., Rutherford K., Salzberg S.L., Craig A., Kyes S.,

Chan M.S., Nene V., Shallom S.J., Suh B., Peterson J., Angiuoli S.,
                                                                                                                                                                                                                                                                                                                                     Q8IJF6;
Q8IJF6;
01-MAR-2003
01-MAR-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=PCC6803;
MEDLINE=97061201; PubMed=8905231;
MEDLINE=97061201; PubMed=8905231;
Kaneko T., Sato S., Kotani H., Tanaka A., Asamizu E., Nakan Miyajima N., Hirosawa M., Sugiura M., Sasamoto S., Kimura M., Mayajima N., Hirosawa M., Wuraki A., Nakazaki N., Naruo K., Hosouchi T., Matsuno A., Muraki A., Nakazaki N., Naruo K., Shimpo S., Takeuchi C., Wada T., Watanabe A., Yamada M., Y.
                                                                                                                                                                                     Hypothetical protein.

ORFNames=PF10 0242;

Plasmodium falciparum (isolate 3D7)

Bukaryota; Alveolata; Apicomplexa;

NCBI_TaxID=36329;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Shimpo S., Tabata S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Sequence analysis of the genome of the unicellular cyanobacterium Synechocystis sp. strain PCC6803. II. Sequence determination of the entire genome and assignment of potential protein-coding regions."

DNA Res. 3:109-136(1996).
                                                                                                                                                                                                                                                                                                              01-MAR-2003 (TrEMBLrel.
01-MAR-2003 (TrEMBLrel.
01-MAR-2003 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF00248; Aldo ket_red; 1.
PRINTS; PR00069; ALDKETEDTASE.
PRODOM; PD000288; Aldo/ket_red; 1.
PROSITE; PS00798; ALDOKETO_REDUCTASE 1; 1.
PROSITE; PS00063; ALDOKETO_REDUCTASE_3; UNKNOWN_1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Synechocystis sp. (strain PCC 6803). Bacteria; Cyanobacteria; Chroococcales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           OrderedLocusNames=slr0942;
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01-MAR-2004
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01-FEB-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        P74308
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HSSP; P14550; 2ALR.
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Pfam; PF00248; Aldo_ket_red; 1.
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Pred. No.
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0; Mismatches
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REPUBLICE FROM N.A.

REPUBLICAN T., Nagai K., Sugano T., Otsuki T., Suzuki Y.,

RA Nishikawa T., Nagai K., Sugano S., Takahashi-Fujii A., Hara H.,

RA Nishikawa T., Nagai K., Sugano S., Takahashi-Fujii A., Hara H.,

RA Arita M., Nabekura T., Ishii S., Kawai Y., Saito K., Yamamoto J.,

RA Arita M., Nabekura T., Ishii S., Kawai Y., Saito K., Yamamoto J.,

RA Wakamatsu A., Nakamura Y., Nagahari K., Masuho Y., Oshima A.;

Submitted (MAY-2001) to the EMEL/GenBank/DDBJ databases.

C.:- SIMILLARITY: Contains 1 RING-type zinc finger.

REMBL; AKO27885; BAB55431.1; --

RO; GO:0000151; C:ubiquitin-protein ligase activity; IEA.

GO; GO:00008270; F:IDNA binding; IEA.

GO; GO:0008270; F:IDNA binding; IEA.

RO; GO:0016567; P:protein ubiquitination; IEA.

RO; GO:0016567; P:PROTEIN Kazal.

RO; GO:0016567; P:PROTEIN Kazal.

RO; GO:0016567; P:PROTEIN Kazal.

RO; GO:0016567; P:ROREIN Kazal.

RO; GO:0016567; P:ROREIN
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01-DEC-2001 (TrEMBLrel. 19, Created)
01-DEC-2001 (TrEMBLrel. 19, Last sequence update)
01-DEC-2004 (TrEMBLrel. 26, Last annotation update)
01-MAR-2004 (TrembLrel. 26, Last annotation update)
Hypothetical protein FLJ14979.
Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia, Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mature 419:498-511(2002).
EMBL; AE014833; AANJ5439.1; -.
Hypothetical protein.
SEQUENCE 1541 AA; 180939 MW
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9606;
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70.0%;
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Pred. No. 1.6e+02;
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1: geneseqp1990s:*
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53
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Listing first 45 summaries
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Copyright (c) 1993 - 2005 Compugen Ltd.
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49.585 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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Adq39380 Auman myo	Human	Human	L'imp	Human	Human	Abu05244 Human exp	Abu05241 Human exp	Human	Human	Adq39376 Human myo	Adp12966 Protein e	Human	Adq39378 Human myo	Adr39747 Human kin	Abu05242 Human exp	Aam41048 Human pol	-	Human	Abu05245 Human exp	Abu05240 Human exp	Abu05239 Human exp	Human	Adq39377 Human myo	Abo84454 Human can	Abg31976 Human CD4	Description

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30	29	28	27	26
37	38	38	39	39	40	40	40	40	40	40	40	40	40	41	43	43	43	49	5
69.8	71.7	71.7	73.6	73.6	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	75.5	77.4	81.1	81.1	81.1	92.5	100.0
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Aab20086 M	Aar14306 A	Adp90916 P	Abu20999 P	Ads21204 B	Aaw89347 C	Aaw44729 C	Abg26905 N	Aau80358 H	Aau80360 H	Aab94801 H	Adc32832 H	Aao12222 H	Adc31123 H	Adn20106 E	Abu21347 F	Adn24584 E	Adn21825 E	Abg31975 H	Adq39375 h
Mouse CAR	Ascorbate	Porcine a	Protein e	Bacterial	Chicken t	Chicken p	Novel hum	Human cel	Human cel	Human pro	Human nov	Human pol	Human nov	Bacterial	Protein e	Bacterial	Bacterial	Human CD4	Human myo

Human CD45 HLA-binding peptide, huCD45/918. 05-NOV-2002 ABG31976; ABG31976 standard; peptide; 10 (first entry) A

ALIGNMENTS

Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; antigen-presenting cell; APC; major histocompatibility complex; MHC antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic; haematopoietic; malignant. MHC; CTL;

Homo sapiens.

WO200244207-A1

06-JUN-2002

30-NOV-2000; 2000WO-GB004566

30-NOV-2000; 2000WO-GB004566.

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

HJ, Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

RESULT 1
ABG31976
ID ABG3
XX ABG3
XX ABG3
XX ABG3
XX Huma
XX Huma
XX Huma
XX Huma
XX Homo
XX H The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytocoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
ABO84454
ID 84454
ID 84454
AID 84454
AID 8456
AC ABO8
XX ABO8
XX Huma
XX Huma
XX Lymp
XX Homc
PN WO2C
XX 17-E
XX 17-E
XX 17-E
XX 17-E
XX 17-E
PR 11-4-P
PR 11
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 10
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14-MAR-2003; 2003US-00388838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
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                                                                                                                                                                                   New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                  N-PSDB; ABD32625
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        17-FEB-2004; 2004WO-US004730
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human cancer-associated protein HP13-011.1.
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                                                                                                                claim 18; segid 145; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-652914/63.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (SAGR-) SAGRES DISCOVERY INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein; 764
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ä
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                                                                                                                                                                                                                                                                                                                                                                                                                                                               Malandro MS;
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Pred. No. 0.00092;
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The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given

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RESULT 3
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Best Local
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                                                                                                                                                                                                                                         20-DEC-2002;
10-MAR-2003;
30-APR-2003;
23-SEP-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                in the specification, or its complement. The nucleic acids encode cancer associated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detectif a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above-
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WPI; 2004-533949/51
                                                                          Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                            22-DEC-2003; 2003WO-US040978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human myocardial infarction-associated gene derived protein, SEQ ID 1040.
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                                                                                                                                                         (APPL-)
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                                                                                                                                                              APPLERA CORP
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                                                                      Devlin JJ,
                                                                                                                                                                                                                                    ; 2002US-0434778P.
; 2003US-0453135P.
; 2003US-0466412P.
; 2003US-0504955P.
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100.0%; P
vative 0;
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                                                                               Iakoubova
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 53; DB 8
Pred. No. 0.15;
Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in C length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a concleic acid molecule; a method of detecting a variant polypeptide; and a concleic acid molecule; a method of detecting a variant polypeptide; and a concleic acid for identifying an agent useful in treating or preventing composition for infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (NP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino
28-MAR-2001; 2001US-0279495P
21-MAY-2001; 2001US-0292544P
                                                                                                                                        WO200278524-A2
                                                                                                                                                                              Homo sapiens
                                                                                                                                                                                                                                                                                                                                         Human expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 960 AA;
                                                        28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABU05246 standard; protein; 1114 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; ADQ38549
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 VNLSELHPYL 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               VNLSELHPYL 583
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                                                                                                                                                                                                                                                                                                                                                                               (first entry)
                                                                                                                                                                                                                                                                                                                                     protein tag (EPT) #1912.
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Pred. No.
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                                                                                                                                                                                                                                                                                              phosphatase;
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RESULT 5
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Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          fragment of a kinase, phosphatase, professe, protesse inhibitor, transporter, cycoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melan lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease; inhibitor; transporter; cytoskeletal protein; protease; interporter; cytoskeletal protein; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-AUG-2001; 2001US-0310801P.
01-0CT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-035780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                Human expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                          WO200278524-A2
                                                                                                                                        Homo sapiens.
                                                                                                                                                                                                                                                                                                  29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                             ABU05239 standard; protein; 1114 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention describes a purified polypeptide,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       treating cancer, e.g. colon cancer, gastric cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          leukemia
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  VNLSELHPYL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                 protein tag
                                                                                                                                                                    sarcoma; melanoma; lymphoma; leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NO 1912; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          .0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                   (EPT) #1905
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       polypeptide, which comprises a protease, protease inhibitor, receptor or transcription factor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.23;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 1114;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                  phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 melanoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                to this
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28-MAR-2001; 21-MAY-2001;

2001US-0279495P 2001US-0292544P

28-MAR-2002; 2002WO-US009671

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RESULT 6
ABU05240
ID ABU05240
XX ABU0
XX ABU0
XX Tran
DE Huma
XX Tran
KW Prot
KW rece
KW majc
KW ader
XX Mader
XX Monot
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tiseme for translations.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            08-AUG-Z001; 2001US-0310801P-
01-CCT-2001; 2001US-0326370P-
04-DEC-2001; 2001US-0336780P-
20-FEB-2002; 2002US-0358985P
                                                                                                                                                                                                                                                                                                                                                                                                      Translational profiling; expressed protein tag; EPT; kinase; phoprotease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; NHC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed protein tag (BPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chicz RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human expressed protein tag (EPT) #1906.
   28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABU05240 standard; protein; 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2;
                                                                                          28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                        WO200278524-A2
                                                                                                                                                                                                                                                                                                                                               adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   728 VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                            histocompatability complex; myeloma; colon cancer; gastric carcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 VNLSELHPYL 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 1905; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      737
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    .23;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      phosphatase,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Gaps
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                               S
                                                                  Query Match
Best Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                                                                              fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                           expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO a
                                                                                                                                                                                                                                             myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanulymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                                       Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides (e.g. cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chicz RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention
                                                                                                                                                                     ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ZYCO-)
757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peptides (e.g. kinases, phosphatases, proteases, transporters, etal proteins, receptors or transcription factors), useful for cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                      VNLSELHPYL 10
VNLSELHPYL 766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 1906; 134pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tomlinson
                                                               100.0%;
ilarity 100.0%;
Conservative 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  INC.
                                                                                                                                         A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                            describes a purified polypeptide, which comprises
                                                                    0
                                                                  Score 53; DB 6
Pred. No. 0.24;
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   English
                                                                                                      6,
                                                                  0
                                                                                                    Length 1143;
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                                                                                                                                                                                                 from WIPO at
                                                                    Gaps
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PRESERVE AND SERVE AND SER
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ABU05245
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Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC;

colon cancer;

gastric

Human expressed protein tag (EPT) #1911.

major histocompatability complex; myeloma; co adenocarcinoma; sarcoma; melanoma; lymphoma;

Homo sapiens.

WO200278524-A2

28-MAR-2001; 2001US-0279495P 21-MAY-2001; 2001US-0292544P

28-MAR-2002; 2002WO-US009671

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RESULT 8
ADL16232
ID ADL1
XX ADL1
XX ADL1
XX ADL1
XX ADL1
XX CYTC
XW CYTC
KW IND
KW GUG
KW GU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           fragment of a kinase, phosphatase, protease, processe inhibitor, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                          cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
      13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                              13-FEB-2003; 2003WO-EP001446
                                                                                                                                                                                                                          WO2003068984-A2
                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human protein tyrosine phosphatase #27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADL16232 standard; protein; 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2; SEQ ID NO 1911; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chicz
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <u>ጸ</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 VNLSELHPYL 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
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                                                                                                                                                                                                                                                                                                                                                   enzyme.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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RESULT 9
ADQ18845
ID ADQ1
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吊
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method for identifying a protein tyrosine CC phosphatase (PTP) that is reversibly oxidized in a cell by: (i) CC subjecting a sample, including a cell that contains at least one PTP, to CC conditions that cause reversible oxidation of PTP; (ii) isolating PTP CC anaerobically, in presence of a sulfhydryl-reactive agent (II) that CC irreversibly modifies the thiol group of an invariant Cys in the active CC site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where CC dephosphorylation, caused by PTP, of a labelled substrate (III), where CC dephosphorylation indicates that an active PTP is present. No details CC of tests for these activities are given. The method is used to identify CC reversibly oxidized PTP, also to identify apents that: (a) reversibly CC medicine, for treating abnormal cell proliferation or growth (cancer); CC guest vs. host disease; autoimmune diseases; allergy or other communosuppressed states; metabolic disorders and cell-cycle invariance. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI;
                                       Aziz N,
                                                                                                                                                                                                                                                                         Human soft tissue sarcoma-upregulated protein - SEQ ID 1664.
                                                                                                                                                                                                                                                                                                                                                                ADQ18845 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1143 AA;
            WPI; 2004-441208/41
                                                                                                 26-NOV-2002; 2002US-0429739P
                                                                                                                            26-NOV-2003; 2003WO-US038193.
                                                                                                                                                                                      WO2004048938-A2
                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                              soft tissue sarcoma; cytostatic;
                                                                                                                                                                                                                                                                                                        26-AUG-2004
                                                                                                                                                                                                                                                                                                                                   ADQ18845;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; SEQ ID NO 81; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (COLD-)
                                                                                                                                                          10-JUN-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2003-712572/67.
DB; ADL16231.
                                                                                                                                                                                                                                                                                                                                                                                                                                       757 VNLSELHPYL 766
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               COLD SPRING HARBOR LAB CEPTYR INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                    PROTEIN DESIGN
                                       Ginsburg WM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                      (first entry)
                                                                                                                                                                                                                                                                                                                                                              protein; 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  z,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 disease.
                                                                     LABS INC.
                                       Zlotnik A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cool DE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                              gene therapy; vaccine; screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0.24;
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                                                                 Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                      Tang
Wang
Zhou
                                                                                                                                                                                                                                                                                                                                      Human polypeptide SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                    AAM41048 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sarcoma.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                               26-DEC-2000; 2000WO-US034263
                                                                                                                                                                                                                       WO200153312-A1
                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                            22-OCT-2001
                                                    (HYSE-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                       757
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                    HYSEQ
          Liu C,
Wang Z,
Goodrich
                                                                                                                                                                                                                                                                                                                                                                                                                                                       VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 1664; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A,
                                                    INC.
         Asundi V,
Wehrman T,
1 R, Drmanac
                                                                                                                                                                                                                                                                                                                                                                                                   protein;
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                                                                                                                                                                                                                                                                                                                                                                                                    1149 AA
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          Chen R,
Xu C,
IC RT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
                     Xue
                              Ma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DB 8;
                    ¥,K
                    Qian XB,
Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1143;
                    Ren F,
Zhang
                              'n
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                    Ç
                               Wang D;
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                     Zhao QA;
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CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemocractic/hemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders. Note: The sequence data for this patent did not form
CC part of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Best Local
                                                                                                                                            28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
                                                                                                                04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                  Translational profiling; expressed protein tag; EPT; kind protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to human nucleic acids (AAI57798 encoded polypeptides (AAM38642-AAM42213) with nootropi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WPI; 2001-442253/47.
N-PSDB; AAI60204.
                         WPI; 2003-040607/03
                                                                                                                                                                                                                      28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                                                          Homo
                                                                                                                                                                                                                                                                                                                                       adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                           Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ABU05242 standard; protein; 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                                  10-OCT-2002.
                                                                                     (ZYCO-)
                                                                                                                                                                                                                                                                                                          sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         763
                                                        RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10;
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                                                                                     ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQ ID NO 5979; 10078pp; English
                                                      Tomlinson
                                                                                                               2001US-0279495P.
2001US-0292544P.
2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                     INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A,
                                                                                                                                                                                                                                                                                                                                       sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              100.0%;
                                                        ጀ
                                                        Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                            (EPT) #1908.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Score 53; DB 4
Pred. No. 0.24;
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                                                        RG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (AAI57798-AAI61369) and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 1149;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                                                                                              kinase;
                                                                                                                                                                                                                                                                                                                                                                                nase; phosphatase;
protein;
                                                                                                                                                                                                                                                                                                                                                     gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
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New polypeptides (e.g.

kinases, phosphatases, proteases, transporters,

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 10
Ramkumar J, Marqua.
Becha SD, Lee SY,
                                                                                                20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                          human; kinase and phosphatase protein; KPP; enzyme; cytostatic; antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human kinase and phosphatase KPP-20 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence
                                                                                                                                                                                                                                   02-SEP-2004
                                                                                                                                                                                                                                                                                                                                                             atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of
                                                                   (INCY-) INCYTE CORP.
                                                                                                                                                                                                 20-FEB-2004; 2004WO-US005092
                                                                                                                                                                                                                                                                  WO2004074453-A2
                                                                                                                                                                                                                                                                                                                                                developmental disorder; Hypothyroidism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADR39747 standard; protein; 1192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2;
                                                                                                                                                                                                                                                                                                  sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                763
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 VNLSELHPYL 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 1908; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
 Marquis JP, Swarnakar A, Chawee SY, Hafalia AJA, Richardson Yang J, Gorvad AE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                , 772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                    Chawla NK,
rdson TW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0.24;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             BB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             6,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Length 1149;
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                    Khare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NO:20.
                                   Tran
                    ₩,
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                                                                                                                                                                                                                                                                                                                                                infection;
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ADQ39378
ID ADQ39
AC ADQ39
AC ADQ39
AC ADQ39
XX 18-NO
DT 18-NO
DX Human
XX MYOCA
KW Gardi
XX Homo
PN WO200
XX 15-JU
XX 22-DE
PR 20-DE
PR 20-DE
PR 23-SE
XX XX IAPPL
XX XX IAPPL
XX WPI;
DR WPI;
DR WPI;
DR N-PSD
XX Ident
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The present sequence represents the human kinase and phosphatase protein (KPP), designated KPP-20. The human KPP sequences from the present CC invention have cytostatic, antiarteriosclerotic, anticonvulsant, CC notropic, neuroprotective, carebroprotective, anti-HIV, antiallergic, CC antiinflammatory and thyromimetic activities, and can be used in gene C therapy. The human KPP proteins and polymucleotides can be used in CC diagnosing, treating and preventing diseases or conditions associated CC with the decreased expression or overexpression of KPP, such as cell CC proliferative (e.g. cancer, atherosclerosis), neurological (e.g. CP) that proteins and developmental (e.g. Hypothyroidism, Cushing's syndrome) CC disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid CC sequences of KPP. The KPP or its fragments are useful in screening CC compounds for effectiveness as agonist or antagonist of the polypeptides, CC or in altering the expression of the target polymucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                 N-PSDB; ADQ38550.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1192 AA;
                                                 WPI; 2004-533949/51.
                                                                                                                                                               10-MAR-2003;
30-APR-2003;
                                                                                                                                                                                              20-DEC-2002; 2002US-0434778P
                                                                                                                                                                                                                              22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                            cardiant;
                                                                                                                                                                                                                                                                                                                                                                             Myocardial infarction; detection; single nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                             18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADQ39378 standard; protein; 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 1; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2004-635568/61.
N-PSDB; ADR39793.
Identifying an individual who has
                                                                                                                                                                                                                                                                15-JUL-2004.
                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              908
                                                                                                                                                                                                                                                                                                                                                                                                           myocardial infarction-associated gene derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1 VNLSELHPYL
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                                                                                                                APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                                            gene
                                                                               Devlin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                             2003US-0453135P
2003US-0466412P
2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                            (first
                                                                                                                                                                                                                                                                                                                                                            therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NO 20;
                                                                               'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              818
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         299pp; English.
                                                                                                                                                                                                                                                                                                                                                              human.
                                                                                 Iakoubova
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              B
 an altered risk for developing
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                                                                                                                                                                                                                                                                                                                                                                                                             protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID 1041
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                                                                                                                                                                                                                                                                                                                                                                             SNP;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                           human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1219 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8 contiguous nucleotides where one of the nucleotides is an SNP githe specification or its complement and encoding any one of the amedid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least further comprises.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            myocardial infarction by detecting a single nucleotide polymorphism
  Chada K,
                                                                                                                                                                                                                              WO2004011618-A2.
                                                                                                                                                                                                                                                                                                                                                                                                               Human adipocyte specific PTPase receptor type C protein SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                                                        03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADM67187 standard; protein; 1256 AA
                                                                                   29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                             29-JUL-2003; 2003WO-US023684
                                          (HMGE-) HMGENE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10;
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Chouinard R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                        (first entry)
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  Ashar H,
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Pred. No. 0.26;
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  Sayed AMD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     DB 8; Length 1219;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1256 AA;
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                                         WPI; 2004-400724/37
                                                                                                                                                                                                          24-APR-2002; 2002US-00131831.
20-DEC-2002; 2002US-00325899.
                                                                                                                                                                                                                                                                                 24-APR-2003; 2003WO-US012946
                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Protein encoding referenece mRNA sequence #51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     12-AUG-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADP12966 standard; protein; 1256 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 541; 91pp; English.
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                                                                                       Rosenberg S;
                                                                                                                                                                                                                                                                                                                             21-MAY-2004.
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                                                                                                                                                            (EXPR-) EXPRESSION DIAGNOSTICS
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                                                                                                             Fry
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                                                                                                                Woodward R,
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Pred. No. 0.27;
                                                                                                                                                              INC.
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                                                                                                                Prentice
                                                                                                             ٦,
                                                                                                                Morris
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Diagnosing or monitoring transplant rejection, e.g.

heart, kidney, liver,

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                                                                         Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in a xenotransplant rejection or mechanical organ replacement rejection, in a individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered
                                           Claim 10; SEQ ID NO 1039; 145pp; English
                                                                                                                                                                                                                                    20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                            Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                         WO2004058052-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                 cardiant;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human myocardial infarction-associated gene derived protein, SEQ ID 1039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring
                                                                                                                                                                                                                                                                                                                22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADQ39376
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                                                                                                                                                                                                          (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                             15-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 65;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               pancreas, rejection,
invention relates to a novel method for identifying an individual an altered risk for developing myocardial infarction. The method
                                                                                                                                  2004-533949/51.
DB; ADQ38548.
                                                                                                                                                                                                                                                                                                                                                                                                      sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                 gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            pancreatic islet, lung, bone marrow or stem cell transplant, in an individual, comprises detecting the expression level
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           in renal transplantation and expression.
                                                                                                                                                                               Devlin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                 therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              879
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                                                                                                                                                                Iakoubova
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Pred.
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                                                                                       polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                          20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in
                                                                       N-PSDB;
                                                                                                                        Cargill M,
                                                                                                                                                                                                                                                                                                                                                       WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human myocardial infarction-associated gene derived protein, SEQ ID 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADQ39379;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADQ39379 standard;
                                                                                                                                                                                                                                                                                   22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                      15-JUL-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                       cardiant; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                       Myocardial infarction; detection; single nucleotide polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1258 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the specification or its complement and encoding any one of the
                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               comprises detecting a single nucleotide polymorphism (SNP)
                                                                                                                                                           (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            872 VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10;
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                                                                       ADQ38551.
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                                                                                                                        Devlin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                         therapy;
                                                                                                                        'n,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein; 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            881
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                                                                                                                          Iakoubova
                                                                                                                                                                                                                                                                                                                                                                                                                           human
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Pred. No. 0.2
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              DB 8;
0.27;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0
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polymorphism

ij

Claim 10;

SEQ ID

NO 1042; 145pp; English

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RESULT 18
ABU05243
ID ABU05
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least CC 8 contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an aNP given in CC comprising an amino acid sequence given in the specification; an antibody CC that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the CC mucleic acid molecule; a method of detecting a variant polypeptide; and a CC nucleic acid so the invention may be used in gene therapy. The CC method is useful in identifying an agent useful in treating or preventing CC composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 10
              28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                  Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; mHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1267 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABU05243;
                                                                                                                                                                                                                  WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                Human expressed protein tag (EPT) #1909.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ABU05243 standard; protein; 1304 AA.
                                                                                                                                           28-MAR-2002;
                                                                                                                                                                               10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 invention
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              2001US-0292544P.

2001US-0310801P.

2001US-0326370P.

2001US-0336780P.

2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                        2001US-0279495P
                                                                                                                                           2002WO-US009671.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0.27;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 1267;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
             28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                   Translational profiling; expressed protein tag; EPT; kina protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer, MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptides (e.g. cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                  Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                   29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                ABU05241;
                                                                                                                                                                                                                                                                                                                                                                                                                                              ABU05241 standard; protein; 1304
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                                                                                                                           28-MAR-2002;
                                                                                                                                                          10-OCT-2002.
                                                                                                                                                                                         WO200278524-A2
                                                                                                                                                                                                                     Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID
             2001US-0279495P.

2001US-029544P.

2001US-0310801P.

2001US-0336770P.

2001US-0336780P.

2002US-03368985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                         2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        NO 1909; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           927
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   kinases, phosphatases, proteases, treceptors or transcription factors)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                                                  (EPT) #1907.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 53; DB 6; Length 1304; Pred. No. 0.28; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gastric cancer,
                                                                                                                                                                                                                                                                                                                    EPT; kinase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sarcoma,
                                                                                                                                                                                                                                                                                                      protein;
                                                                                                                                                                                                                                                                     gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     transporters,
s), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
                                                                                                                                                                                                                                                                                                                   phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Lymphoma
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local S
Matches 10
                           28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, lymphoma o
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example 2;
                                                                                                                                                                                                                                       28-MAR-2002;
                                                                                                                                                                                                                                                                                                 10-OCT-2002
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID NO 1907; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                          2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein tag (EPT) #1910.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           927
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0.28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Gaps
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RESULT 21
ADL16230
ID ADL10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor.

Ctransporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypeptide is also polypeutides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (BPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed from wiPO at the profile of the profile of the protein tag is the printed by the was obtained in electronic format directly from WiPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                         protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorde
                                                                                                                                                                                                                                                                                                                                                          Human protein tyrosine phosphatase #26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
Tonks NK,
                              (COLD-)
                                                                             13-FEB-2002;
12-FEB-2003;
                                                                                                                                                             21-AUG-2003
                                                                                                                                                                                             WO2003068984-A2
                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                            cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                            cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                           06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADL16230 standard; protein; 1304 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Example
                                                                                                                             13-FEB-2003; 2003WO-EP001446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    treating cancer, e.g. colon cancer, gastric cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          918 VNLSELHPYL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      못
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 VNLSELHPYL 10
                              COLD SPRING CEPTYR INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity
Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                             2002US-0356810P.
2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NO 1910; 134pp; English
                                               HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
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                                                                                                                                                                                                                                                            enzyme.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 53;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      RG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0.28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 6;
                                                                                                                                                                                                                                                                             allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          binds to this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Gaps
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RESULT 22
ADP65158
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, conditions that cause reversible oxidation of PTP; (ii) isolating PTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Disclosure; SEQ ID NO 79; 238pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-712572/67.
N-PSDB; ADL16229.
GENBANK; NP_002829
                                                                                                                                                                                                                                                                                      31-OCT-2002; 2002WO-US035433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human protein tyrosine phosphatase, receptor type, C,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADP65158 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g.
                                                                                                Hirsch R,
                                                                                                                                                                                                                          31-OCT-2001; 2001US-0336220P
                                                                                                                                                                                                                                                                                                                                                                                                                   WO2003072827-A1
                                 WPI; 2003-712740/67
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     autoimmune disease; arthritide; gene expression analysis;
rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     immunomodulatory; lupus; ankylosing spondylitis; Fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiarthritic; osteopathic; antigout; antiinflammatory; dermatological;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 918
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1 VNLSELHPYL
                                                                                                                                                              CHILDREN'S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 VNLSELHPYL
                                                                                                Thorton SL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first
                                                                                                                                                              HOSPITAL MEDICAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 927
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         . 28;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    7;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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Sequence

1304

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Cor arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention of the genes correlates with that of the gene signature. The invention of the genes correlates with that of the gene signature. The invention of the genes correlates with that of the gene signature. The invention of the genes for targeting in the treatment of rheumatoid arthritis; identification of the treatment of context than a mouse; diagnosis of rheumatoid arthritis in a mammal; an of array or gene chip, specific for rheumatoid arthritis; screening the confidence of autoimmune disease or rheumatoid arthritis; screening the confidence arthritis; and reducing the symptoms associated with collagentinduced arthritis. The compositions of the invention have the following continued arthritis. The compositions of the present invention have the following continued and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as continued disease or arthritides, such as continued disease caused by an infectious agent. This sequence represents a continued disease or arthritis, such as continued disease or arthritis, and an infectious agent. This sequence is not shown the specification. It has been supplied in an electronic format from continued the sequence of a continued disease or arthritides. Note: This sequence is not shown to the specification. It has been supplied in an electronic format from continued the continued of a continued disease or arthritides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    patient sample containing mRNA, analysing gene expression using the mRN that results in a gene expression signature of the mRNA, and using that gene expression signature to diagnose or analyse the autoimmne disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            autoimmune disease or arthritides. The method comprises obtaining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel method for diagnosing and analysing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Disclosure; Page; 56pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the mRNA
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RESULT 23
ADM67209
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Best Local S
Matches 10
                                                                                                                                                    human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                      29-JUL-2002;
12-JUN-2003;
                                                                                                                              Homo sapiens
                                                                                                                                                                                                                Human adipocyte specific leukocyte common antigen protein SeqID 563.
                                                                                                                                                                                                                                       03-JUN-2004
                                                                                                                                                                                                                                                               ADM67209;
                                                                                                                                                                                                                                                                                     ADM67209 standard; protein; 1304 AA
                                                                                 05-FEB-2004.
(HMGE-) HMGENE INC
                                                          29-JUL-2003; 2003WO-US023684
                                                                                                        WO2004011618-A2
                                                                                                                                                                                                                                                                                                                                                918
                                                                                                                                                                                                                                                                                                                                                                                              10;
                                                                                                                                                                                                                                                                                                                                                                      1 VNLSELHPYL 10
                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
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                      2002US-0398785P.
2003US-0478206P.
                                                                                                                                                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                 927
                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 53; DB 7
100.0%; Pred. No. 0.28;
tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                    DB 7; Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                              0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 10
                                         14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-00461862.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                               Human cancer-associated protein HP13-011.2.
                                                                                                                                                                                                                                                                                                                                                                                                                              ABO84455 standard; protein; 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
              (SAGR-)
                                                                                                                                                      17-FEB-2004; 2004WO-US004730
                                                                                                                                                                                                                     WO2004074320-A2
                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                    lymphoma;
                                                                                                                                                                                                                                                                                                                                                               18-NOV-2004 (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              918 VNLSELHPYL 927
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ζ,
                                                                                                                                                                                                                                                                                                  cancer-associated protein; cytostatic; cancer; leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 VNLSELHPYL 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10;
              SAGRES DISCOVERY INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Similarity
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                                                                                                                                                                                                                                                                                    CAP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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Pred. No.
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Contiguous nuclectides of any of the 233 polynucleotide sequences given to the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the above recombinant nucleic acid or expression vector, a microarray for detecting cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above complement), an isolated antibody, (or its antigen binding fragment) that thinks to the above polypeptide, a hybridoma that produces the above complement), an isolated antibody, (or its antigen binding fragment) that condition and pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer cells (comprising the presence or absence of cancer cells in an cell (comprising the presence or absence of cancer cells in an cell citation and the protein (CAP), methods for detecting cancer cells in an individual, an electronic library comprising the above comprising the above composition comprising the above consociated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of consociated with expression of a polypeptide in a test cell sample, a method for detecting cancers and a method for inhibiting the expression of consociated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of consociated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of consociated with expression of the composition and methods are useful for detecting.
                                                                                            diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that moduli cancer. The present sequence is a human CAP protein sequence. Note: sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from W
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
Sequence 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           claim 18; seqid 147; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Morris DW,
                                                          ftp.wipo.int/pub/published_pct_sequences
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                          Query Match
Best Local S
Matches 10
918 VNLSELHPYL
             1 VNLSELHPYL
                           10;
                                  Similarity
                           Conservative
927
             10
                                 100.0%;
                           0;
                           Score 53; DB
Pred. No. 0.2
); Mismatches
                                  0.28;
                                          DB
                                         8
                           0;
                                        Length 1304;
                           Indels
                           0;
                           Gaps
                           0
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RESULT 25
ADQ39380
ID ADQ39
XX
AC ADQ39
XX
DT 18-NC
XX
DT 18-NC
XX
Cardi
XX
Myocz
KW Myocz
KW Myocz
KW Cardi
XX
OS Homo
XX
PD 15-JI
                                                                                                                             ADQ39380 standard; protein; 1304
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(first

entry)

Human myocardial infarction-associated gene derived protein, SEQ ID 1043

Myocardial infarction; detection; single nucleotide gene therapy; polymorphism; SNP;

WO2004058052-A2

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RESULT 26
ADQ39375
ID ADQ39
XX ADQ39
XX ADQ39
XX IB-NC
XX IB-NC
XX Wyoci
KW Myoci
KW cardi
XX
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                                                                                                                                                                                                                                                                                                                                             ફ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 B contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequence given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding trapment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has an increased or method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the appecification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises an isolated nucleic acid molecule comprising at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10; SEQ ID NO 1043; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-045313D:
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                               Human myocardial infarction-associated gene derived protein, SEQ ID 1038
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1304 AA;
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                  Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human.
                                                                                                                        18-NOV-2004
                                                                                                                                                                                                 ADQ39375 standard; protein; 1306 AA
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                                                                                                                                                                                                                                                                                                          918
                                                                                                                                                                                                                                                                                                                                               1 VNLSELHPYL 10
                                                                                                                                                                                                                                                                                                                                                                                         10;
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                                                                        Matches
                                                                                       Query Match
Best Local Similarity
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30-APR-2003;
23-SEP-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                             Sequence 1306
                                                                                                                                                                                                  composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 10; SEQ ID NO 1038; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-JUL-2004.
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                                                                                                                                                                                   an electronic
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VNLSELHPYL
                                    VNLSELHPYL
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; 2003US-0453135P.
; 2003US-0466412P.
; 2003US-0504955P.
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                                                                        Conservative
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                                                                      Score 53; DB 8;
Pred. No. 0.28;
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Title:
Perfect score:
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Listing first 45 summaries
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1: pir1:*
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44
1 LLAFGFAFL 9
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                                                                                                                                                                                                                                                                    283416 seqs, 96216763 residues
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	ຫ	4.	ω	2	1	Result No.
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77.3	77.3			77.3		77.3	77.3		77.3	77.3	77.3	77.3	77.3	77.3	77.3	77.3	79.5	79.5	79.5	81.8	•	84.1	86.4	86.4	86.4	88.6	88.6	100.0	Query Match
708	672	592	513	512	482	430	355	321	321	321	321	321	259	256	220	198	1132	351	351	721	481	1237	1291	183	24	336	213	1304	Length
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hypothetical prote	probable receptor-	cytochrome-c oxida	cytochrome-c oxida	cytochrome-c oxida	cytochrome-c oxida		Œ	peptide transport				tr	þ			hypothetical prote	telomerase catalyt	dihydroorotate deh	dihydroorotate deh	lpsA protein [impo	hypothetical prote	protein-tyrosine-p	protein-tyrosine-p	leukocyte common a	transmembrane glyc		hypothetical prote	commo	Description

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D82138 S71165	AB1258 AF1620	S08270 H83941	F97894	T21515	C95023	T31778	C84078	G90444	AE3372	T14136
hypothetical prote RNA-directed DNA p	hypothetical prote hypothetical prote	cytochrome-c oxida ABC transporter (A		hypothetical prote	competence-induced	hypothetical prote	hypothetical prote	hypothetical prote	toluene tolerance	NADH2 dehydrogenas

ALIGNMENTS

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A;Status: not compared with conceptual translation A;Molecule type: mRNA A;Residues: 32-192 <ra2> A;Experimental source: clone HLC-2 A;Experimental source: clone HLC-2 R;Tsai, A.Y.; Streuli, M.; Saito, H. Mol. Cell. Biol. 9, 4550-4555, 1989 A;Title: Integrity of the exon 6 sequence is essential for tissue-specific alternative : A;Reference number: I57658; MUID:90066468; PMID:2531281 A;Accession: I57658 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: 146-192 <res></res></ra2>	A; Title: Structural variants of human T200 glycoprotein (leukocyte-common antigen). A;Reference number: A91066; MUID:87275816; PMID:2956090 A;Accession: A29449 A;Molecule type: mRNA A;Residues: 1-31,193-649,'L',651-869,'G',871-872,'A',874-1206,'P',1208-1304 <ral> A;Cross-references: GB:Y00062; NID:g34275; PIDN:CAA68269.1; PID:g34276 A;Experimental source: clones pHLC-1 and lambdaHLG1 A;Accession: B29449</ral>	A;Accession: C46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-31,193-264 <st3> A;Cross-references: GB:Y00638 A;Experimental source: clone LCA.1 R;Ralph, S.J.; Thomas, M.L.; Morton, C.C.; Trowbridge, I.S.</st3>	A;Accession: A46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-1304 <str> A;Coss-references: UNIPROT:P08575; GB:Y00638 A;Cross-references: UNIPROT:P08575; GB:Y00638 A;Experimental source: clone LCA.6/2 A;Accession: B46546 A;Accession: B46546 A;Accession: B706146 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-32,99-264 <st2> A;Cross-references: GB:Y00638 A;Cross-references: GB:Y00638</st2></str>	RESULT 1 A46546 leukocyte common antigen long splice form precursor - human leukocyte common antigen long splice form precursor - human N;Alternate names: CD45; protein-tyrosine-phosphatase, receptor type c; T200 glycoprote N;Contains: leukocyte common antigen intermediate splice form; leukocyte common antigen C;Species: Homo sapiens (man) C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_change 09-Jul-2004 C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #toxt change 09-Jul-2004 C;Accession: A46546; B46546; C46546; A29449; B29449; I57658 R;Streuli, M.; Hall, L.R.; Saga, Y.; Schlossman, S.F.; Saito, H. J. Exp. Med. 166, 1548-1566, 1987 A;Title: Differential usage of three exons generates at least five different mRNAs enco A;Reference number: A46546; MUID:88061067; PMID:8824653

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R;Smith, D.R.; Robison, A. submitted to the EMBL Data Library, submitted to Mycobacterium leprae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Cross-references: GDB:119768; OMIM:151460
A;Map position: 1q31-1q32
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;S94-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;695-899/Domain: protein-tyrosine-phosphatase homology <PTP>
F;651/Active site: Cys (phosphocysteine intermediate) #status predicted
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C;Genetics:
A;Gene: GDB:PTPRC; CD45
                                                                                                                                                                                                                                     Nature 409, 1007-1011, 2001
A; Authors: Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.; A; Title: Massive gene decay in the leprosy bacillus.
A; Reference number: A86909; MUID:21128732; PMID:11234002
                                                                                                                                                                                                                                                                                                                               R;Cole, S.T.; Eiglmeier, K.; Parkhill, J.; James, K.D.; R.; Davies, R.M.; Devlin, K.; Duthoy, S.; Feltwell, T.; eam, M.A.; Rutherford, K.M.
                                                                                                                                                                                                                                                                                                                                                                                                  probable membrane protein [imported] - Mycobacterium leprae C;Species: Mycobacterium leprae C;Species: Mycobacterium leprae C;Date: 20-Apr-2001 #sequence_revision 20-Apr-2001 #text_ch.C;Accession: G87202
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A; Residues: 1-213 <SMI>
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C; Accession: S73011
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                                                                                                                                  Cross-references: UNIPROT:069510;
                                                                                                                                                         Molecule type: DNA
Residues: 1-336 <STO>
                                                                                                                                                                                                 Status: preliminary
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  Similarity
8; Conserv
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                                                                                                                                                                              DNA
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Pred. No.
                                                                                                                                  GB:AL450380; NID:g13093956; PIDN:CAC31863.1; GSPDB:C
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                                           Length 336
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Holroyd,
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A28334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   leukocyte common antigen precursor - mouse (fragment)
N,Alternate names: B220; Ly-5 (B-cell specific)
C;Species: Mus musculus (house mouse)
C;Date: 19-May-1989 #sequence_revision 19-May-1989 #text_change 09-Jul-2004
C;Accession: A28335
                  protein-tyrosine-phosphatase (EC 3.1.3.48) Ly-5 precursor (B-cell variant) - mouse N;Alternate names: 200K leukocyte common antigen; B220; CD45; Ly-5 (B-cell specific); N;Contains: protein-tyrosine-phosphatase (T-cell variant) C;Species: Mus musculus (house mouse) C;Species: Mus musculus (house mouse) C;Date: 10-Sep-1999 #text_change 09-Jul-2004 C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004 C;Accession: A28334; A29381; A61180; A60933; A33522; A29075; I54450; A28335; A23329; I R;Thomas, M.L.; Reynolds, P.J.; Chain, A.; Ben-Neriah, Y.; Trowbridge, I.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    S
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C;Superfamily: leukocyte
C;Keywords: glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Saga, Y.; Tung, J.
Mol. Cell. Biol. 8, 4889-4895, 1988
A;Title: Organization of the Ly-5 Gene.
A;Reference number: I57644; MUID:89096862;
A;Accession: I57644
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Date: 02-Aug-1996 #sequence_revision 02-Aug-1996 #text_change 09-Jul-2004 C;Accession: I57644
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Title: Alternative use of 5' exons in the specification of Ly-5 A;Reference number: A28335; MUID:87260987; PMID:3037546 A;Accession: A28335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A. Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987
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A; Residues: 1-183 <SAG>
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A; Residues: 1-24 < RES>
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Pred. No. 0.6;
0; Mismatches
      5360-5363,
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Pred. No.
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A;Accession: A29381
A;Molecule type: mRNA
A;Molecule type: mRNA
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A;Cross-references: GB:M14342; NID:g198914; PIDN:AAA39458.1; PID:g198915
A;Cross-references: GB:M14342; NID:g198914; PIDN:AAA39458.1; PID:g198915
A;XI: Cleveland, J.L.; Ihle, J.N.
Blood 78, 2222-2228, 1991
A;Title: Identification of novel protein tyrosine phosphatases of hematopoietic cells b
A;Reference number: A61180; MUID:92032882; PMID:1932742
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A;Residues: 'R',289-298;329,'V',331-336,'Y';'R',364-370,'X',372-375;595-608;638-649;669-
R;Johnson, N.A.; Meyer, C.M.; Pingel, J.T.; Thomas, M.L.
J. Biol. Chem. 264, 6220-6229, 1989
A;Title: Sequence conservation in potential regulatory regions of the mouse and human 10
A;Reference number: A33522; MUID:89197920; PMID:2522930
A;Accession: A33522; MUID:89197920; PMID:2522930
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A;Title: Sequences of Ly-5 cDNA: isoform-related diversity of Ly-5 mRNA. A;Reference number: A29381; MUID:86313686; PMID:2944116
                                                                                                                                                                                                                                                                                                                                                                                               R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A.
Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987
A;Title: Alternative use of 5' exons in the specification
A;Reference number: A28335; MUID:87260987; PMID:3037546
A;Accession: A28335
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                                                                                                                                                                                                                     A;Cross-references: GB:M14342
R;Shen, F.W.; Saga, Y.; Litman, G.; Freeman, Proc. Natl: Acad. Sci. U.S.A. 82, 7360-7363, A;Reference number: A23329; MUID:86042665; Ph
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A; Residues: 1-30,74-226 <SA2>
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A; Residues: 32-73 < RES>
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A;Residues: 961-1291 <RAS>
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A;Title: Cloned murine T200 (Ly-5) cDNA reveals multiple transcripts within B-A;Reference number: A29075; MUID:87092355; PMID:2948186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Gonez, L.J.; Walker, I.D.; Sandrin, M.S.; McKenzie, Immunogenetics 25, 263-266, 1987
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A; Residues: 730-838 < YIA>
                                                                                                             A;Cross-references: GB:M11934;
                                                                                                                                                                   A; Molecule type: mRNA
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R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A.
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                                                        ;Saga, Y.; Tur
ol. Cell. Biol
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;Residues: 1-22 <JOH>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cross-references: GB:M15174; NID:g201105; PIDN:AAA40161.1; PID:g201106
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                                                        Tung, J
Biol. 8,
                                                                                                                                     10-30,170-263 <SHE>
, J.
8, 4889-4895, 1988
79tion of the Ly-5 (
                                                                                                          NID:g198919; PIDN:AAA39461.1;
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C;Superfa
C;Keyword
                                                  submitted to the EMBL Data A; Reference number: Z19790 A; Accession: T23729
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A;Molecule type: mRNA
A;Residues: 1-1237 <FRAN>
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol
C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphata:
F;528-1170/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;610-834/Domain: protein-tyrosine-phosphatase homology <PTP>
F;796/Active site: Cys (phosphocysteine intermediate) #status predicted
F;792/Binding site: substrate phosphata (Arg) #status predicted
hypothetical protein M05B5.6 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R; Fang, K.S.; Barker, K.; Sudol, J. Biol. Chem. 269, 14056-14063, A; Title: A transmembrane protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F;664-888/Domain: protein-tyrosine-phosphatase homology <PTP>
F;64,150,161,207,211,218,253,258,290,311,322,347,416,427,457,489,520,556/Binding
F;846/Active site: Cys (phosphorysteine intermediate) #status predicted
F;846/Binding site: substrate phosphate (Arg) #status predicted
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A;Accession: I57644
A;Status: preliminary; translated from GB/EMBL/DDBJ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type delta
C;Species: Gallus gallus (chicken)
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C;Genetics:
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A; Residues: 'MT', 1-22 < RE2>
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April 1996

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GB/EMBL/DDBJ

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RiTomb, J.F.; White, O.; Kerlavage, A.R.; Clayton, R.A.; Sutton, G.G.; Fleischmann, R. Peterson, S.; Loftus, B.; Richardson, D.; Dodson, R.; Khalak, H.G.; Glodek, A.; McKer son, J.D.; Kelley, J.M.; Grodek, M.D.; Weidman, J.M.; Fujii, C.; Bowman, C.; Watthey, Nature 388, 539-547, 1997
A;Authbors: Wallin, E.; Hayes, W.S., Borodovsky, M.; Karpk, P.D.; Smith, H.O.; Fraser, A;Title: The complete genome sequence of the gastric pathogen Helicobacter pylori. A;Reference number: A64520; MUID:97394467; PMID:9252185
A;Accession: C64646
                                                                                                                                                                                                                                                                                                                                                                               C64646
dihydroorotate dehydrogenase - Helicobacter pylori (strain 26695)
C;Species: Helicobacter pylori
C;Date: 09-Aug-1997 #sequence_revision 09-Aug-1997 #text_change 09-Jul-2004
C;Accession: C64646
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A;Map
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A;Title: The genome sequence of the facultative intracellular pathogen Brucella melitens A;Reference number: AD3252; PMID:11756688
A;Accession: AH3417
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AH3417
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A;Residues: 1-481 <WIL>
A;Cross-references: UNIPROT:Q21517; EMBL:Z71265; PIDN:CAA95836.1; GSPDB:GN00019; CESP:MC
ş
                                                                                                                     A;Cross-references: UNIPROT:025655; GB:AE000609; GB:AE000511; NID:g2314150; PIDN:AAD0805C;Superfamily: dihydroorotate oxidase
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C;Species: Brucella melitensis
C;Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 09-Jul-2004
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A; Introns: 50/2;
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A; Residues: 1-351 < TOM>
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    R;Alm,
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hypothetical protein jhp1487 - Helicoba
C;Species: Helicobacter pylori
A;Variety: strain J99
C;Date: 12.-Feb-1999 #sequence_revision
C;Accession: A71801
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                                                                                                                                                                                                                                                                                                                                                                                                                         A; Residues: 1-1132 < NAK>
A; Cross-references: UNIPROT:014746;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Title: Telomerase catalytic subunit homologs from fission A;Reference number: Z15111; MUID:97400623; PMID:9252327 A;Accession: T03844
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C;Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 09-Jul-2004 C;Accession: T03844 R;Nakamura, T.M.; Morin, G.B.; Chapman, K.B.; Weinrich, S.L.; Andrews, W.H. Science 277, 955-959, 1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N;Alternate names: telomerase reverse transcriptase C;Species: Homo sapiens (man)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C; Superfamily: dihydroorotate oxidase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Variety: strain J99
C;Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 C;Accession: E71335
R;Alm, R.A.; Ling, L.S.L.; Moir, D.T.; King, B.L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              dihydroorotate dehydrogenase - C;Species: Helicobacter pylori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Cross-references: UNIPROT:Q9ZM11; A;Experimental source: strain J99
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LIAFGFGYL
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77.8%;
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Pred. No.
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Mismatches
                        12-Feb-1999
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L.S.L.; Moir,

D.T.;

King,

B.L.;

Brown, E.D.; Doig, P.C.; Smith, D.R.;

Gaps

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A;Cross-references: UNIPROT:Q99TE9;
A;Experimental source: strain N315
C;Genetics:
                                                                                                                                                                                                                                    conserved hypothetical protein SA1536 [imported] - Staphylococcus aureus (strain N315) C;Species: Staphylococcus aureus
C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Accession: F89955
R;Kuroda, M.; Ohta, T.; Uchiyama, I.; Baba, T.; Yuzawa, H.; Kobayashi, I.; Cui, L.; Oguma, A.; Mizutani-Ui, Y.; Kobayashi, N.; Sawano, T.; Inoue, R.; Kaito, C.; Sekimizu, K.
C.; Shiba, T.; Hattori, M.; Ogasawara, N.; Hayashi, H.; Hiramatsu, K.
Lancet 357, 1225-1240, 2001
Lancet 357, 1225-1240, 2001
A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus.
A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: F89955
A;Accession: F89955
A;Status: preliminary
A;Matcus aureus aureus
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A;Authors: Wallin, E.; Hayes, W.S.; Borodovsky, M.; Karpk, P.D.; Smith, H.O.; Fraser, C. A;Title: The complete genome sequence of the gastric pathogen Helicobacter pylori.

A;Reference number: A64520; MUID:97394467; PMID:9252185

A;Accession: D64717

A;Status: preliminary; nucleic acid sequence not shown; translation not shown
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C;Date: 09-Aug-1997 #sequence_revision 09-Aug-1997 #text_change 09-Jul-2004
C;Accession: D64717
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A;Experimental source: strain J99
C;Genetics:
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A; Residues: 1-256 < KUR>
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A; Residues: 1-220 < TOM>
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A; Residues: 1-198 < ARN>
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Best Local S
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Query Match
Best Local Similarity
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                                                                                  SA1536
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6; Conservative
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Similarity 66.7%;
6; Conservative
  77.3%;
77.8%;
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  Score 34;
Pred. No.
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  and is derived by analysis of the total score distribution.
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ALIGNMENTS

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Query Match
Best Local Similarity
Matches 9; Conserv
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Hall L.R., Streuli M., Schlossman S.|
"Complete exon-intron organization or
antigen (CD45) gene.";
J. Immunol. 141:2781-2787 (1988).
EMBL; M23463; AAG26082.1; JOINED.
EMBL; M23463; AAG26082.1; JOINED.
EMBL; M23462; AAG26082.1; JOINED.
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01-MAR-2001 (TEMBLrel. 16, Last sequence
01-DEC-2001 (TEMBLrel. 19, Last annotation of the common antigen (Fragment).
SEQUENCE FROM N.A.
Takafuji V.A., Sharova L.V.,
Submitted (MAY-2002) to the E
EMBL; AY114350; AAM76678.1;
                                                                                     Equus caballus (Horse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Perissodactyla; Equidae; Equus.
                                                                       NCBI_TaxID=9796;
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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05-JUL-2004
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                                InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 3.
PROSITE; PS50853; FN3; 2.
NON_TER 453 453
                                                                                                                                                                                                  STRAIN-Boran; TISSUE=Peripheral blood;
MEDLINE=21115144; PubMed=11220630; DOI=10.1007/s002510000276;
Ballingall K.T., Waibochi L., Holmes E.C., Woelk C.H., MacHugh N.D.,
Lutje V, McKeever D.J.;
"The CD45 locus in cattle: allelic polymorphism and evidence for
exceptional positive natural selection.";
Immunogenetics 52:276-283(2001).
EMBL; AJ400865; CACO5415.1; -.
TTHEATPORT TERNON366; FN TIT
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Submitted (MAR-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; AY567999; AAS75254.1; -.
NON_TER 240 240
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      51211 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
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16, Last sequence update)
26, Last annotation update)
hatase (Fragment).
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27,
27,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 44; DB
Pred. No. 1.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
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      2E01CCE6FF6C5268 CRC64;
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on update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Euteleostomi;
cora; Bovidae;
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RESULT 5
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ID Q6SZ
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Matches 9
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Best Local
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05-JUL-2004 (TrEMBLrel. 27, Last sequence up
05-JUL-2004 (TrEMBLrel. 27, Last annotation
CD45 antigen isoform 6 (EC 3.1.3.48) (Fragme Name=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                           O9GMB4 PRELIMINARY; PRT; 461 AA.
O9GMB4; PREVININARY; PRT; 461 AA.
O1-MAR-2001 (TrEMBLrel. 16, Created)
O1-MAR-2001 (TrEMBLrel. 16, Last sequence update)
O1-MAR-2004 (TrEMBLrel. 26, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hydrolase.
                                                              TISSUE=Peripheral blood;
MEDLINE=21115144; PubMed=11220630; DOI=10.1007/s002510000276;
Ballingall K.T., Wasibochi L., Holmes E.C., Woelk C.H., MacHug
Lutje V., McKeever D.J.;
"The CD45 locus in cattle: allelic polymorphism and evidence
exceptional positive natural selection.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; AY444871; AAR16435.1; -. GO; GO:0016787; F:hydrolase activity; GO; GO:0004725; F:protein tyrosine pho InterPro; IPR003961; FN III. InterPro; TPR008957; FN III-like. Pfam; PF00041; fn3; 2. SMART; SM00060; FN3; 2.
                                                                                                                                                                                                                                                                                                        Bos taurus (Bovine).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eute
Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schnitzlein W.M., Zuckermann F.A.; Submitted (OCT-2003) to the EMBL/G
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q6SZ80;
05-JUL-2004
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                   EMBL;
                                                                                                                                                                                                                 SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                         NCBI_TaxID=9913;
                                                                                                                                                                                                                                                                                            Bovinae;
                                                                                                                                                                                                                                                                                                                                                                                                       Membrane tyrosine phosphatase (Fragment).
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                      Immunogenetics 52:276-283 (2001).

IMBL; AJ400864; CAC05417.1; -.
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                                                                                                                                                                                                                                                                                            Bog.
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IPR003961; FN_III
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               454 AA;
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Pred. No. 5.7;
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                                                                                              evidence for
                                                                                                                                                                                                                                                                                                                                      Euteleostomi;
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Sus.
                                                                                                                                           MacHugh N.D.,
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RESULT 7

QGGMB5

ID QGGMB5

AC QGGM
AC QGGM
DT 01-P
D
RESULT
ID OMBIT
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Best Local S
Matches 9
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InterPro; IPR008957; FN III-like.
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS50853; FN3; 2.
NON TER 463 463
SEQUENCE 463 AA; 52236 MW; FAB
                                                                                                                                                                                                                                                                                                        Q9GMB1;
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01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation updat
Membrane tyrosine phosphatase (Fragment).
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NON TER 461 461

SEQUENCE 461 AA: ETC.
                                                                                                                                                                                               01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Membrane tyrosine phosphatase (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       exceptional positive natural selection.", Immunogenetics 52:276-283(2001).
EMBL, AJ400866; CAC05416.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=Boran; TISSUE=Peripheral blood;
MEDLINE=21115144; PubMed=11220630; DOI=10.1007/s002510000276;
Ballingall K.T., Walbochi L., Holmes E.C., Woelk C.H., MacHug
Lutje V., McKeever D.J.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR008957; FN_III-like. Pfam; PF00041; fn3; 2. SMART; SM00060; FN3; 3.
       SEQUENCE FROM N.A.
                                                                           Bovinae; Syncerus.
                                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                             Syncerus caffer (Cape buffalo).
Eukaryota; Metazoa; Chordata; (
                                                                                                                                                                                  Name=cd45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Lutje V., McKeever D.J.; "The CD45 locus in cattle: allelic polymorphism and evidence for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9915;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Metazoa;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Bos indicus (Zebu).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Name=cd45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 44; DB 2; Length 463; llarity 100.0%; Pred. No. 5.8; Conservative 0; Mismatches 0; Indels 0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; llarity 100.0%; Conservative 0
                                                                                                                                                                                                                                                                                                                               PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
                                                                                                      Cetartiodactyla;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               0;
                                                                                                                             Craniata; Vertebrata; Euteleostomi;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FABF7F83F387596F CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             8736F59346454240 CRC64;
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                                                                                                        Ruminantia; Pecora;
                                                                                                                                                                                                                                                                                                                               465
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Indels
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RESULT 9
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AC Q6SZ
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Best Local S
Matches 9
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBL; AY444870; AAR16434.1; -
GO; GO:0016787; F:Ipydrolase activity; II
GO; GO:0004725; F:protein tyrosine phosp
InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS50853; FN3; 2.
                                                            Q6SZ82;
Q6SZ82;
05-JUL-2004
05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q6SZ81;
05-JUL-2004 (;
05-JUL-2004 (;
05-JUL-2004 (;
CD45 antigen ;
Name=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NON_TER
                      CD45 antigen isoform Name=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Schnitzlein W.M., Zuckermann F.A.;
Submitted (OCT-2003) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF00041; fn3; 1.

SMART; SM00060; FN3; 2.

PROSITE; PS50853; FN3; 2.

NON_TER 465 465
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Immunogenetics 52:276-283(2001).
Sus scrofa (Pig).
                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sus scrofa (Pig).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Hydrolase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Peripheral blood;
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LLAFGFAFL
                                                              (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                466 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         466
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (TrEMBLrel. 27, Created)
(TrEMBLrel. 27, Last sequence update)
(TrEMBLrel. 27, Last annotation update)
1 isoform 5 (EC 3.1.3.48) (Fragment).
                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     100.0%;
llarity 100.0%;
Conservative 0;
                                                                                                                                                PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                 27, Created)
27, Last sequence update)
27, Last annotation update)
(EC 3.1.3.48) (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                             Score 44;
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                                                                                                                                                                                                                                                                                                                                                                    Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 44;
                                                                                                                                                                                                                                                                                                                                                                                                                                377CF34B4AE18A28 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          9415673F219A368A CRC64;
                                                                                                                                                                                                                                                                                                                                              Mismatches
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                                                                                                                                                                                                                                                                                                                                              Indels
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RESULT

OGS ZB3

ID ZB6

DT OS5

DT OS5

OG N Na

GN NA

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Q6SZ84
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Best Local S
Matches 9
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Best Local S
Matches 9
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Schnitzlein W.M., Zuckermann F.A.;
Submitted (OCT-2003) to the EMBL/GenBank/DDBJ dat
EMBL, Ay444469; AAR16433.1; -.

GO; GO:0016787; F:hydrolase activity; IEA.

R GO; GO:004725; F:protein tyrosine phosphatase activity: IFR003961; FN_III.

R InterPro; IPR003961; FN_III.

R InterPro; IPR003961; FN_III-like.

R Pfam; PF00041; fn3; 2.

R Pfam; PS00653; FN3; 2.

R PROSITE; PS50853; FN3; 2.
   Q6SZ84;
Q6SZ84;
05-JUL-2004
05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q6SZ83;
05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
CD45 antigen isoform 3 (EC 3.1.3.48) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hydrolase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Schnitzlein W.M., Zuckermann F.A.;

Submitted (OCT-2003) to the EMBL/GenBank/DDBJ

EMBL; AY444868; AAR16432.1; -

GO; GO:0016787; F.hydrolase activity; IEA.

GO; GO:0004725; F.protein tyrosine phosphatase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q6SZ83
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hydrolase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS50853; FN3; 2.
                                                                                                                                                                                                                                                                                                                   7
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                                                                                                                                                                                                                                                                                                                                                                                                                                               l Similarity
9; Conserv
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9; Conserv
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|LLAFGFAFL 15
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517 /
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   (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
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                                                                                                                                             PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         AA;
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57184 MW;
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55600 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chordata; Craniata; Vertebrata;
Cetartiodactyla; Suina; Suidae;
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       27,
27,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 44; DB 2;
Pred. No. 6.3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 44;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         D4BD2C74EE186339 CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Length 517;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Length 501;
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Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                               °,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Gaps
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   RESULT 14
Q6PJK7
ID Q6PJK
AC Q6PJK
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Q6PJK7;
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RESULT 13
Q6SZ85
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Best Local S
Matches 9
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                      Q6SZ85;
Q6SZ85;
05-JUL-2004
05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                         05-UIL-2004 (TYEMBLrel. 27, Created)
05-UIL-2004 (TYEMBLrel. 27, Last sequence update)
05-UIL-2004 (TYEMBLrel. 27, Last annotation update)
CD45 antigen isoform 1 (EC 3.1.3.48) (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS50853; FN3; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (OCT-2003) to the EMBL/GenBa
EMBL; AY444667; AAR16431.1; -.
GO; GO:0016787; F:hydrolase activity;
GO; GO:0004725; F:protein tyrosine pho
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A. Zuckermann
                                                                                                                SEQUENCE
                                                                                                                                                                      InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
Pfam; Pf000601; fn3; 2.
SMART; SM00060; FN3; 2.
                                                                                                                                                                                                                             EMBL; AY444866; AAR16430.1; -.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phospha
                                                                                                                                                                                                                                                                          Schnitzlein W.M., Zuckermann F.A.; Submitted (OCT-2003) to the EMBL/G
                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                              Sus scrofa (Pig).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
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NON_TER
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Mammalia; Eutheria;
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                                                                                                                               Hydrolase.
                                                                                                                                                          PROSITE;
                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                             Name=CD45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           NCBI_TaxID=9823;
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InterPro; IPR008957; FN_III-like.
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                                                      Similarity 9; Conserv
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                            LLAFGFAFL
                                                                                                                                                          PS50853; FN3; 2.
LLAFGFAFL
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567 AA;
                                                                                                                583 AA;
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ilarity 100.0%;
Conservative (
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Cetartiodactyla; Suina; Suidae;
                                                                                                                63951 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2 (EC 3.1.3.48) (Fragment).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 44; DB 2;
Pred. No. 6.8;
); Mismatches (
                                                                     Score 44;
Pred. No.
                                                                                                              52FAA170EF02E83E CRC64;
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                                                        Mismatches
                                                                                                                                                                                                                                phosphatase activity;
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                                                                                   DB 2;
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Sus.
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Sus.
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PRELIMINARY;

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RA Klausner R.D., Collins F.S., Wagner L., Shemmen C.M., Schuler G.D.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Hopkins R.F., Jordan H., Moore T., Rabin G.M., Hong L.,

RA Stapleton M., Guers M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

Raha S.S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,

RA Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

RA Kzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,

RA Jones S.J., Marra M.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 9
                               Q6ED60;
Q6ED60;
25-OCT-2004
25-OCT-2004
25-OCT-2004
CD45;
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PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM000.94; PTPC; 1.
SMART; SS00.94; PTPC; 1.
PROSITE; PS50853; FN3; 2.
PROSITE; PS50855; TYR PHOSPHATASE PTP; 1.
NON TEP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PTPKC FIRRC;
Homo sapiens (Human).
Homo sapiens (Firman).
Homo sapiens (Human).
Homo sapiens (Human).
Homo sapiens (Human).
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InterPro; IPR008957; FN III-like.
InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases EMBL; BC014239; AAH14239.1; -HSSP; P18031; 1AAX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.
GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
   Aotus vociferans (Spix's owl monkey)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Strausberg R.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Generation and initial analysis of more than 15,000 full-length human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Jones S.J., Marra M.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (SSUE=Primary B-Cells;
                                                                                                                                                                                                                                                                                                                                      7
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Similarity
9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                       LLAFGFAFL
                                                                                                                                                                                                                                                                                                                                   LLAFGFAFL 15
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         756
756 AA;
                                                       (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Acad.
                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%; ilarity 100.0%; Conservative 0
                                                                                                                                                                                 PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         85430 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             U.S.A.
                                                       28,
28,
28,
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27, Last sequence update)
27, Last annotation update)
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Last sequence update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 44; DB 2; Length 756;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             99:16899-16903 (2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                 PRT; 1290 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         8A9A863827BD69E6 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ŏ.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8.7;
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RESULT 16
Q6ED61
     DAGE CONTRACTOR OF THE CONTRAC
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y_phosphatase; 2.

Pfam; PF00102; Y_phosphatase; 2.

Pfam; PF00102; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM000194; PTPC; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50853; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE PTP; 2.
                                                                                                                                     Tissue Antigens 64:165-172(2004).

EMBL; AY445817; AA506902.1; -.

GO; GO:0004725; F:protein tyrosine phos
GO; GO:0006470; P:protein amino acid de
InterPro; IPR003961; FN_III.
InterPro; IPR003951; FN_III-like.
InterPro; IPR003595; PTPC_motif.
InterPro; IPR003595; PTPC_motif.
InterPro; IPR0003597; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q6ED61;
Q6ED61;
25-OCT-2004
                         SMART;
                                                                  Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=37293;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Tissue Antigens 64:165-172(2004).

EMBL; AY445818; AAS66903.1; -.

GO; GO:0004725; F:protein tyrosine phosphatase activity;

GO; GO:0006470; P:protein amino acid dephosphorylation; I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
InterPro; IPR003595; PTPC motif.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Montoya G.E., Vernot J.P., Patarroyo N
"Comparative analysis of CD45 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=57176;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                                  Montoya G.E., Vernot J.P.,
                                                                                                                                                                                                                                                                                                                                                                                                                                               PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Aotus nancymaae (Ma's night monkey).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      25-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      vs. human.";
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                                                                                                                                                                                                                                                                                                                                                                                              "Comparative analysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mammalia; Eutheria;
                         SM00060;
SM00194;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1 LLAFGFAFL 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         LLAFGFAFL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1290 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (TrEMBLrel. 28, (TrEMBLrel. 28, (TrEMBLrel. 28,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                           FN3; 2
PTPc; 2.
PTPc_motif; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Platyrrhini; Cebidae; Aotinae; Aotu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Platyrrhini; Cebidae; Aotinae; Aotus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                           CD45 protein in
                                                                                                                                                                                                                                                                                                                                                                                                                        Patarroyo M.E.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Last sequence update)
Last annotation updat
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 44;
Pred. No.
                                                                                                                                                                                                                                                                        ine phosphatase activity; IEA acid dephosphorylation; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          99E810C75D932824 CRC64;
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primate
                                                                                                                                                                                                                                                                                                                                                                                              primate context: owl monkeys
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DΒ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <u>,</u>
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RESULT 17
Q6ED62
ID Q6ED6
AC Q6ED6
DT 25-QC
DT 110-CT
DT
                                                                                                                             RESULT 18
CD45_HUMAN
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      BUTTO
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Best Local S
Matches
                                                                                                                                                                                                                                                                                               Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; IPR003961; FN III.
InterPro; IPR003957; FN III-like.
InterPro; IPR003957; FPDc motif.
InterPro; IPR003959; PTPC motif.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR00021; TYR PP.
Pfam; PF00041; fn3; 2
Pfam; PF00041; fn3; 2
Pfam; PF000102; Y phosphatase; 2.
Pfam; PF000102; Y phosphatase; 2.
SMART; SM00104; PTPC; PN3; 2
SMART; SM00104; PTPC; motif; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS
PROSITE; PS
PROSITE; PS
PROSITE; PS
Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q6ED62;
25-OCT-2004
25-OCT-2004
CD45 HUMAN STANDARD; PRT; 1304 AA. P08575; Q16614; Q9H0Y6; 01-AUG-1988 (Rel. 08, Created) 10-OCT-2003 (Rel. 42, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update) Leukocyte common antigen precursor (EC 3.1.3.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q6ED62
                                                                                                                                                                                                                                                                                                                                                                                                                      PROSITE; PS50853; FNJ, 2.
PROSITE; PS00383; TYR PHOSPHATASE 1; 2.
PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                  Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Tissue Antigens 64:165-172(2004).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             "Comparative analysis
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Montoya G.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NCBI_TaxID=57175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Aotus nigriceps (Black-headed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        BL; AY445816;
; GO:0004725;
; GO:0006470;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
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                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                               Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               9;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PSS0853; FN3; 2.
PS00383; TYR_PHOSPHATASE_1;
PSS0056; TYR_PHOSPHATASE_2;
PSS0055; TYR_PHOSPHATASE_PTI
                                                                                                                                                                                                                                         LLAFGFAFL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        LLAFGFAFL 9
                                                                                                                                                                                                                 LLAFGFAFL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 LLAFGFAFL 17
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 1303 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                  1303 AA;
                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Vernot
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        F:protein tyrosine P:protein amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AAS06901.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chordata;
Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 146929 MW;
                                                                                                                                                                                                                                                                                                                   100.0%;
                                                                                                                                                                                                                                                                                                                                                                                  146586 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             J.P., Patarroyo
s of CD45 protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Last sequence update)
Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Created)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 44; DB
Pred. No. 14;
0; Mismatches
                                                                                                                                                                                                                                                                                               Score 44; DB
Pred. No. 14;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Craniata; Vertebrata; Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              owl monkey)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ine phosphatase activity acid dephosphorylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 D0EB0C640D1D17E8 CRC64;
                                                                                                                                                                                                                                                                                                                                                                                9BB023EBF4BC1165 CRC64;
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TISSUE-Lymphocytes;
MEDLINE-88061067; PubMed-2824653;
Streuli M., Hall L.R., Saga Y., Schlos
"Differential usage of three exons gen
mRNAs encoding human leukocyte common
                                                This SWI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MUTACENESIS:
MEDLINE=90316093; PubMed=1695146;
MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
"Distinct functional roles of the two intracellular phosphatases lCA and
                                                                                                                                                + + +
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Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988)
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Charbonneau H., To
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE OF 191-1304 FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Charbonneau H., Tonks N.K., Walsh K.A.,
"The leukocyte common antigen (CD45): a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=89009812;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0 J. 9:2399-2407(1990).
O J. 9:2399-2407(1990).
FUNCTION: Required for T-cell activation through the receptor. The first PTPase domain has enzymatic active receptor. The seems to affect the substrate specifice the second one seems to affect the second constraints.
                                                                                                               IsoId=P08575-2; Sequence=VSP_007780;
PTM: Heavily N- and O-glycosylated.
SIMILARITY: Belongs to the protein-tyrosine phosphat
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains.
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                                                                                                                                                                                                                                                         tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH
SUBCELLULAR LOCATION: Type I mer
ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                                                                                                                                                                                                                                                                                                                                         Event=Alternative splicing; Named isoforms=2; Comment=At least 8 isoforms are produced;
SWISS-PROT entry is copyright. It is produced through a collable en the Swiss Institute of Bioinformatics and the EMBL outst Buropean Bioinformatics Institute. There are no restrictions by non-profit institutions as long as its content is in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    J. 6:1251-1257(1987).
                                                                                                                                                                                                                                                                                                                                              IsoId=P08575-1; Sequence=Displayed;
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i M., Schlossman S.F.,
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REMEL; W23496; AAD15273.2; JOINED.

REMEL; W23466; AAD15273.2; JOINED.

REMEL; W23467; AAD15273.2; JOINED.

REMEL; W23474; AAD15273.2; JOINED.

REMEL; W23474; AAD15273.2; JOINED.

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REMEL; W23474; AAD15273.2; JOINED.

REMEL; W23475; AAD15273.2; JOINED.

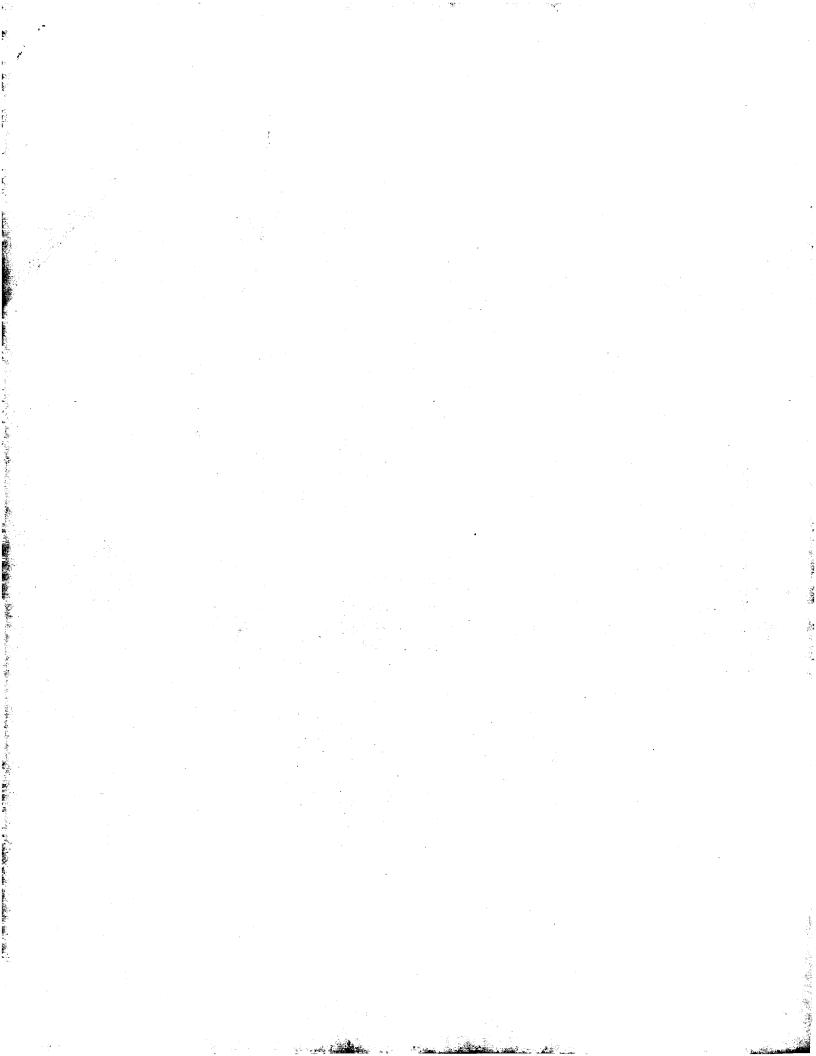
REMEL; W23476; AAD15273.2; JOINED.

REMEL; W23
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Transmembrane.
SIGNAL 1
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DOMAIN 390
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Leukocyte common antigen.
Extracellular (Potential).
Potential.
Cytoplasmic (Potential).
Fibronectin type-III 2.
Fibronectin type-III 2.
Fibronectin type-III 2.
Protein-tyrosine phosphatase 1.
Protein-tyrosine phosphatase 2.
Prosphocysteine intermediate (Bensphocysteine inter
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(Potential).
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N-link
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Pred. No. 14;
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Search completed: May Job time: 95.8421 secs ω 2005, 07:40:45



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Title:
Perfect score:
Sequence:
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Maximum Match 100%
Listing first 45 summaries
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PIR 79:*
1: pir1:*
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3: pir3:*
4: pir4:*
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Gapop 10.0 , Gapext 0.5
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	, 00	7	6	v	4.	ω	N	_	Result
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vaccinia virus 18K	hypothetical prote	formin binding pro	hypothetical prote	hypothetical prote	FYVE finger-contai	probable voltage-g	GTPase-activating	clostripain-relate	DNA-directed DNA p	external glycoprot	env polyprotein -	protein ZK1127.7 [chitinase B homolo	chitinase B homolo	hypothetical prote

ALIGNMENTS

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A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-1520 </r>
A;Cross-references: 1
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(;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;675-899/Domain: protein-tyrosine-phosphatase homology <PTP>
F;675-899/Domain: protein-tyrosine-phosphatase homology <PTP>
F;851/Active site: Cys (phosphocysteine intermediate) #status predicted
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C;Genetics:
C;Genetics: CD45
A;Cross-references: GDB:119768; OMIM:151460
                                                                                     submitted to the EMBL Data A; Reference number: Z20470 A; Accession: T28109
                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein K12D12.1 - Caenorhabditis elegans
C;Species: Caenorhabditis elegans
C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004
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                                                                                                                                                    R;Swinburne, J.
                                                                                                                                                                                                                                                           A;Status: preliminary; translated
                                                                                                                                                                                                                                                                                  A; Reference number: A; Accession: T23620
                                                                                                                                                                                                                                                                                                        submitted to the EMBL Data Library, April 1995 A;Reference number: Z19772
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A; Map position:
C; Superfamily:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Gene: SPAC2E11.08
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Experimental source: C; Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Molecule type: DNA
A;Residues: 1-793 <MUR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Murphy, L.; Harris, D.; Barrell, B.G.; Rajandream, M.A.; Wood, V. submitted to the EMBL Data Library, August 1998
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  dipeptidyl
                                                                                                                                                                                                                                                                                                                                                                                                                                                            T23620
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 7
                                                                                                                                                                                            ;Molecule type: DNA
;Residues: 1-1520 <WIL>
;Cross-references: UNIPROT:Q23670;
                                                            Status: preliminary; translated
                                                                                                                                                                        Experimental source: clone
                                                                                                                                                                                                                                                                                                                                                                  Accession: T23620; T28109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Residues: 1-793 KNUKY (NIPROT:014073; E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Reference number: Z22011
Accession: T41703
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Species: Schizosaccharomyces pombe
Date: 03-Dec-1999 #sequence_revision 03-Dec-1999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Status: preliminary; translated
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  150 YLYNTETK 157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                237 YLYNKETKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    aminopeptidase - fission yeast (Schizosaccharomyces pombe)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 YLYNKETK 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 YLYNKETKL 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      dipeptidyl-peptidase IV
                                            DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
                          <WI2>
EMBL: Z70213; PIDN: CAA94177.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GB:M29253; NID:g187020; PIDN:AAA59497.1; PID:g553521
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                245
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       79.2%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          100.0%;
                                                                                                                             Library, March 1996
                                                                                                                                                                          K12D12
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   °,
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Pred. No.
                                                                 from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                             from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 48;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL:AL031180; PIDN:CAA20138.1; GSPDB:GN00066; cosmid c2E11 -chimeric
                                                                                                                                                                                            EMBL: Z49069; PIDN: CAA88867.1; GSPDB: GN00020; CESP: K1
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  GSPDB:GN00020; CESP:K12D12.1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1;
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A;Note: host Felis silvestris catus (domestic cat)
C;Date: 31-Dec-1993 #sequence_revision 31-Dec-1993 #text_change 09-Jul-2004
C;Accession: A45394; S16030
R;Verschoor, B.J.; Hulskotte, B.G.J.; Ederveen, J.; Koolen, M.J.M.; Horzinek, M.C.; Rott Virology 193, 433-438, 1993
A;Title: Post-translational processing of the feline immunodeficiency virus envelope pre
F;612-856/Product:
F;616-640/Region: 1
F;786-812/Domain: 1
                                                        F;95-111/Region: hydrophobic F;151-169/Region: hydrophobic
                                                                                       A;Gene: env
C;Superfamily: feline immunodeficiency virus env polyprotein
C;Keywords: capsid protein; coat protein; glycoprotein; polyp
F;1-611/Product: surface glycoprotein #status predicted <SGP
                                                                                                                                                                        A;Cross-references: UNIPROT:Q03804; EMBL:X60725; NID:g1092; PIDN:CAA43131.1; PID:g1093 C;Comment: This protein lacks an N-terminal signal sequence, and one of the three inte: C;Genetics:
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Best Local Similarity
"hes 7; Conservi
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C; Superfamily: eukaryotic
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A;Gene: CESP:K12D12.1
                                                                                                                                                                                                                                  A; Molecule type: mRNA
A; Residues: 1-856 < VER>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Date: 18-Aug-2000 #sequence_revision C;Accession: B82885
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Experimental source:
                                                                                                                                                                                                                                                                       A; Reference number: A45394;
A; Accession: A45394
                                                                                                                                                                                                                                                                                                                                                                                                                                                   N; Contains:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     N; Alternate names: coat polyprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Genetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Gene: UU485
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Molecule type: DNA
A; Residues: 1-705 <GLA>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Reference number: A82870
A;Accession: B82885
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Description: The complete sequence of Ureaplasma urealyticum:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   R;Glass,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        hypothetical protein UU485 [imported] - Ureaplasma urealyticum
C;Species: Ureaplasma urealyticum
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A45394
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Experimental source:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Status: preliminary
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Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                 Species: feline immunodeficiency virus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ;Cross-references: GB:AE002146;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         polyprotein precursor - feline immunodeficiency virus (strain UT-113)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               J.I.; Lefkowitz, E.J.; Glass, J.S.; Heiner, C.R.; Chen, E.Y.; Cassell,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           509
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   code:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 surface glycoprotein; transmembrane glycoprotein
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               YNKETKL 9
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                    hydrophobic
                                      transmembrane
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                                                                                                                                                                                                                                                                                             processing of the feline immunodeficiency virus envelope MUID:93174954; PMID:8382405
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II DNA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GB:AF222894; NID:g6899479; PIDN:AAF30897.1; biovar 1
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                                      glycoprotein
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Pred. No. 56;
2; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      20-Aug-2000 #text_change 20-Aug-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          39;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB
                                      #status predicted <TGP>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 705
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                                                                                                   polyprotein;
<SGP>
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transmembrane

#status predicted <TMN>

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RESULT 8
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C; Geneti
A; Gene:
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A; Status: preliminary
A; Molecule type: DNA
A; Molecule: 1-185 < PAR>
A; Residues: 1-185 < PAR>
A; Cross-references: UNIPROT: Q9PN88;
A; Cross-references: serotype 02,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          RESULT 7
A81327
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R;Gardner, M.J.; Tettelin, H.
R; Fertea, M.; Salzberg, S.;
Science 282, 1126-1132, 1998
                                                                                                                                                                                                                                                                                                                                                              C;Accession: A81327
R;Parkhill, J.; Wren, B.W.; Mungall, K.; Ketley, J.M.; Churcher, C.; Basham, D.; Chil C.W.; Quail, M.; Rajandream, M.A.; Rutherford, K.M.; VanVliet, A.; Whitehead, S.; Bar Nature 403, 665-668, 2000
A;Title: The genome sequence of the food-borne pathogen Campylobacter jejuni reveals A;Reference number: A81250; MUID:20150912; PMID:10688204
A;Accession: A81327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      probable lipoprotein thiredoxin Cj1207c [imported] - Campylobacter jejuni (strain C;Species: Campylobacter jejuni (strain C;Date: 31-Mar-2000 #sequence_revision 31-Mar-2000 #text_change 09-Jul-2004 C;Accession: A81327
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 6
H71611
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            probable secreted protein PPB0565w - malaria parasite (Plasmodium falciparum) C;Species: Plasmodium falciparum C;Date: 13-Nov-1998 #secuence ravision 13 Nov-1998 #secuence ravision 13 Nov-1998 #secuence ravision 13 Nov-1998
probable galactosyltransferase Cj1124c
C;Species: Campylobacter jejuni
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A; Residues: 1-1817 < GAR>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Title: Chromosome 2 sequence of the human malaria parasite Plasmodium falciparum. A;Reference number: A71600; MUID:99021743; PMID:9804551
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A; Experimental source: clone
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                                                                                                                                                                           Matches
                                                                                                                                                                                            Best
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Date: 13-Nov-1998 #sequence_revision 13-Nov-1998 #text_change 09-Jul-2004
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ses 7; Conserv
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                                                                                                                                                                          Conservative
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Pred. No.
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Pred. No.
                                                                                                                                                                                                                                                                            GB:AL139077; GB:AL111168; NID:g6968444; PIDN:CAB734 strain NCTC 11168
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                     [imported]
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Sutton, G.G.; Clayton,
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R.; White, O.;
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T17771
                 A; Experimental C; Genetics:
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A;Gene: wlaH; Cj1124c
C;Superfamily: pss2 p:
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hypothetical protein jhp0944 - Helicobacter pylori (strain J99)
C;Species: Helicobacter pylori
C;Species: Strain J99
C;Date: 12-reb-1999 #sequence_revision 12-Feb-1999 #text_change 09-Jul
C;Accession: B71868
C;Accession: B71868
R;Alm, R.A.; Ling, L.S.L.; Moir, D.T.; King, B.L.; Brown, E.D.; Doig,
I ves, C.; Gibson, R.; Merberg, D.; Mills, S.D.; Jiang, Q.; Taylor, D
Nature 397, 176-180, 1999
A;Title: Genomic sequence comparison of two unrelated isolates of the
A;Reference number: A71800; MUID:99120557; PMID:9923682
A;Molecule type: DNA
A;Residues: 1-263 <GRA>
A;Cross-references: UNIPROT:084591; EMBL:U42580; NID:94028896;
A;Experimental source: specific host Chlorella strain NC64A
                                                                                                                    R;Graves, M.V.; Van Etten, J.L.
submitted to the EMBL Data Libr
A;Reference number: Z18806
A;Accession: T17771
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R;Parkhill, J.; Wren, B.W.; Mungall, K.; Ketley, J.M.; Churcher, C.; Basham, D.; C.W.; Quail, M.; Rajandream, M.A.; Rutherford, K.M.; VanVliet, A.; Whitehead, S.; Nature 403, 665-668, 2000
                                                                                                                                                                                                               C;Date: 15-Oct-1999 #sequence_revision
C;Accession: T17771
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A;Accession: G81316
                                                                                           A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                                                                                                                                                                            hypothetical protein A274R - Chlorella virus PBCV-1
C;Species: Chlorella virus PBCV-1
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A;Experimental source: strain J99
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A; Residues: 1-255 < ARN>
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A; Residues: 1-200 < PAR>
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C;Accession: G81316
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87.5%;
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Pred.
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Q.; Taylor, D.E.; Vovis, G.F.;
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                           PIDN: AAC96642.1
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RESULT 13
T52158
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A;Experimental source: strain PAO1
C;Genetics:
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Nature 406, 959-964, 2000
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A;Molecule type: DNA
A;Residues: 1-659 <GOD>
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hypothetical
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A;Note: the authors translated the codon ACC for residue 313 as Asn C;Comment: This enzyme cleaves heparan sulfate-rich regions of acidic C;Superfamily: Flavobacterium heparinum heparitin-sulfate lyase
                                                                                                                                                                                                                                                                                                                                                                                                                                   Biochem. Biophys. Res. Commun. 225, 751-758, 1996
A;Title: Heparinase III from Flavobacterium heparinum: Cloning and A;Reference number: JC4910; MUID:96374394; PMID:8780685
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               C;Species: Flavobacterium heparinum
C;Date: 01-Nov-1996 #sequence_revision 01-Nov-1996 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            neparin-sulfate lyase (EC 4.2.2.8) - Flavobacterium heparinum
N;Alternate names: heparin-sulfate eliminase; heparinase III
                                                                                                                                                                             Query Match
Best Local S
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                                                                                                                                                                                                                                                         ;Keywords: carbon-oxygen lyase
                                                                                                                                                                                                                                                                                                                                                                                                                  ;Accession: JC4910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Godavarti, R.; Davis, M.; Venkataraman, G.; Cooney, C.; Langer, R.; Sasisekharan,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Accession: JC4910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Species: Pseudomonas aeruginosa
;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Status: preliminary
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  protein Ca49C10.14 [imported] -
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A.; Larbig,
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K.; Lim,
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H71606
                                                                                                              R;Gardner, M.J.; Tettelin, H.; Carucci, D.J.; Cummings, L.M.; Aravind, L.; Koonin, ; Pertea, M.; Salzberg, S.; Zhou, L.; Sutton, G.G.; Clayton, R.; White, O.; Smith, Science 282, 1126-1132, 1998
A;Title: Chromosome 2 sequence of the human malaria parasite Plasmodium falciparum. A;Reference number: A71600; MUID:99021743; PMID:9804551
A;Accession: H71606
                  A; Residues: 1-1398 <GAR>
A; Cross-references: UNITROT:096244;
A; Cross-references: Clone 3D7
                                                                                                                                                                                                                                     C;Species: Plasmodium falciparum
C;Date: 13-Nov-1998 #sequence_revision 13-Nov-1998 #text_change 09-Jul-2004
C;Accession: H71606
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                                                                                                                                                                                                                                                                                              hypothetical protein PFB0755w - malaria parasite (Plasmodium falciparum)
                                                                         A; Molecule type: DNA
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E.V.;

GB:AE001416; GB:AE001362;

NID: 93845268; PIDN: AAC7194

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R; Cnambaud, I.; Heilig, R.; Ferris, S.; Barbe, V.; Samson, D.; Galisson, F.; Moszer, Nucleic Acids Res. 29, 2145-2153, 2001
A; Title: The complete genome sequence of the murine respiratory pathogen Mycoplasma A; Reference number: A99512; MUID:21267165; PMID:11353084
A; Accession: E90581
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submitted to the EMB, Data Library, November 1998
A;Reference number: Z25985
A;Accession: T52158
                                                                                                                                                                                                                               A;Residues: 1-873 <KUR>
A;Cross-references: UNIPROT:Q98Q12; GB:AL445566; PID:g14089972; PIDN:CAC13730.1; GSPDB:GA;Experimental source: strain UAB CTIP
                                                                                                                                                                                                                                                                                                                                                                                                                         hypothetical protein MYPU_5570 [imported] - Mycoplasma pulmonis (strain UAB C;Species: Mycoplasma pulmonis C;Species: Mycoplasma pulmonis C;Date: 24-May-2001 #sequence_revision 24-May-2001 #text_change 09-Jul-2004 C;Accession: E90581
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A; Note: Ca49Cl0.14
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A; Residues: 1-725 < TAY>
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                                                                                                                                                    C; Superfamily: alanyl-tRNA ligase
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Local Similarity 66.7%;
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cosmid Ca49Cl0
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CD45 (Fragment).
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PubMed=15014144; DDI=10.1093/molbev/mshil1;

Filip L.C., Mundy N.I.;

Filip L.C., Mundy N.S.;

Propid Evolution by Positive Darwinian Selection in the Extracellular Domain of the Abundant Lymphocyte Protein CD45 in Primates.";

Mol. Biol. Evol. 21:1504-1511(2004).
                                                                                                                                                                                                                                                                                                                   Q6QIM8
Q6QIM8; PRELIMINARY;
05-JUL-2004 (TrEMBLrel. 27,
05-JUL-2004 (TrEMBLrel. 27,
05-JUL-2004 (TrEMBLrel. 27,
                                                                                                                                                                            NCBI
                                                                                                                                                                                            Pongo pygmaeus (Orangutan).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Name=PTPRC;
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"Rapid Evolution by Positive Darwinian Selection in the Extracellular Domain of the Abundant Lymphocyte Protein CD45 in Primates.";
Mol. Biol. Evol. 21:1504-1511(2004).
EMBL; AY539691; AA546946.1; -.
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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PubMed=15014144; DOI=10.1093/molbev/msh111;

PubMed=15014144; DOI=10.1093/molbev/msh111;
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Pred. No.
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Q9pxz5
Q90px25
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Q6bxd9
Q8bsb7
Q8cbs6
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SUMMARIES

455 2228 2228 2228 3166 3166 3166 3167 7133 71520 1520 1541 793 793 793 793 793 793

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O8A269
Q7N4T2
O9PQ05
LP1B DROME
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Q9NHB3 Q7ZTV7 Q9PZ20 Q7X5M2

756 1304 383 816 77 77 77

Q6QIN1
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Q6QIN0
Q6QIN0
Q6QINO
Q6PJK7
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LP1A DROME Q6QIM5 Q6QIM6 Q6QIM7 Q6QIM7 Q9RM84 Q59208 Q7RG88

Minimum

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Total number of

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Sequence: Title: Perfect score:

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1 YLYNKETKL 9 US-10-003-983C-8

Scoring table:

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GenCore version (c) 1993 - 2005

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 s

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Database

UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*

AY539694; AAS46949.1;

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PubMed=15014144; DOI=10.1093/molbev/mshl11;
Filip L.C., Mundy N.I.;

"Rapid Evolution by Positive Darwinian Sele
Domain of the Abundant Lymphocyte Protein C
Mol. Biol. Evol. 21:1504-1511(2004).

EMBL; AY539693; AAS46948-1; -.

NON_TER 1
                                                                             SEQUENCE FROM N.A. PubMed=15014144; DOI=10.1093/molbev/msh111;
                                                                                                          NCBI_TaxID=9598;
                                                                                                                                                                    05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
                                                                                                                                                   CD45 (Fragment).
Name=PTPRC;
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                                           Filip L.C., Mundy N.I.;
Filip L.C., Mundy N.I.;
"Rapid Evolution by Positive Darwinian Selection in the Extracellular
"Rapid Evolution by Positive Darwinian Selection in the Extracellular
                                                                                                                    Pan troglodytes (Chimpanzee).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Mammalia; Eutheria;
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2 AA;
                                     undant Lymphocyte Protein 21:1504-1511(2004).
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    42AC733A3297AD52 CRC64;
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Pred. No. 0.11;
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Pred. No.
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                                                                                                                     Catarrhini; Hominidae;
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RESULT 5
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RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
RA Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
RA Stapleton M., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Brownstein M.J., Ugdin T.B., Toshiyuki S., Carninci P., Prange C.,
RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,
RA Raha S.S., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
RA Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
RA Pahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A.,
RA Pahey J., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,
RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
RA Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,
RA Alnes S. T. Marra M.A.
                          Query Match
Best Local
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InterPro; IPR00895; FN III-like.
InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 1.
PRINTS; PR00700; PRTYPHHTASE.
SMART; SM00109; PTD; 1.
PROSITE; PS50853; FN3; 2.
SMART; SM00194; PTDc; 1.
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Q6DJK7;
05-JUL-2004 (TrEMBLrel. 2
05-JUL-2004 (TrEMBLrel. 2
05-JUL-2004 (TrEMBLrel. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                      Strausberg R.;
Submitted (SEP-2001) to the EMBL/Ge
EMBL; BC014239; AAH14239.1; --
HSSP; P18031; 1AAX.
GO; GO:0004725; F:protein tyrosine
GO; GO:0006470; P:protein amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE-Primary B-Cells;
TISSUE-Primary B-Cells;
MEDLINE=2388857; PubMed=12477932; DOI=10.1073/pnas.242603899;
Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
Schuler
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               and mouse cDNA sequences."; Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                              SEQUENCE
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                                                                                                                                          ON TER
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                                                    Length 756;
  Indels
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RESULT
CD45_HU
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CD45 HUMAN STANDARD; PRT; 1304 AA.

P08575; Q16614; Q9H0Y6;

01-AUG-1988 (Rel. 08, Created)

10-OCT-2003 (Rel. 42, Last sequence update)

05-UUL-2004 (Rel. 44, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           LT 6
                                                                                                                                                                                                                                                                     MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tar
"Distinct functional roles of the two
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            TISSUE=Lymphocytes;
MEDLINE=88061067; PubMed=2824653;
Streuli M., Hall L.R., Saga Y., Schlossman S.F.,
"Differential usage of three exons generates at
                                                                                                                                                                                                                                                                                                                                     Charbonneau H., Tonks N.K., Walsh K.A., Fischer E "The leukocyte common antigen (CD45): a putative protein tyrosine phosphatase.", Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                Hall L.R., Streuli M., Schlossman S.F., Saito H.; "Complete exon-intron organization of the human leukocyte antigen (CD45) gene."; J. Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Structural variants of human T200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    mRNAs encoding human leukocyte common antigens."; J. Exp. Med. 166:1548-1566(1987).
                                                                                                                                                                                                                                                                                                              MUTAGENESIS
                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=89017162; PubMed=2845400;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=89009812; PubMed=2971730;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE=Placenta;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE OF 191-1304 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antigen)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE=87275816; PubMed=2956090; Ralph S.J., Thomas M.L., Morton C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
 IsoId=P08575-2;
PTM: Heavily N- ar
SIMILARITY: Belong
                                                                                                                    tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH
SUBCELLULAR LOCATION: Type I men
                                                                                                                                                          the second one seems to affect the substrate specifirst one.
CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                                                                                                                                ) J. 9:2399-2407(1990).

FUNCTION: Required for T-cell activation through receptor. The first PTPase domain has enzymatic a receptor.
                                           Name=2
                                                                               Event=Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
                                                                                                         SUBCELLULAR LOCATION: ALTERNATIVE PRODUCTS:
                                                      IsoId=P08575-1;
                                                                                                                                                                                                                                                          of the receptor-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           6:1251-1257(1987).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (Human)
575-2; Sequence=VSP_007780; y N- and O-glycosylated. Belongs to the protein-tyr
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ISOFORM 2),
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                                                      Sequence=Displayed;
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Catarrhini;
  protein-tyrosine phosphatase family
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two intracellular p
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glycoprotein (leukocyte-common
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i; Hominidae;
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es at least five different
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PRINTS; PRO07UU; ....
PROSITE; PS50853; FN3; 2.
PROSITE; PS50853; TYR_PHOSPHATASE_1; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
PROSITE; PS50055; TYR_PHOSPHATASE; PTP; 2.
Alternative splicing; Antigen; Glycoprotein; H'Alternative splicing; Protein phosphatase; Repeat;
 DOMAIN
TRANSMEM
DOMAIN
DOMAIN
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InterPro;
InterPro;
Pfam; PF00
Pfam; PF00
                                                SIGNAL
CHAIN
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Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE
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GO; GO:0005001; F:transmembrane receptor protein tyrosine pho.
GO; GO:0007166; P:cell surface receptor linked signal transdu.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (S or send an email to license@isb-sib.ch).
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SIMILARITY: Contains 2 fibronectin type III domains.
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
                                                                                                                                                                                                                                                                                                                                                            | M23471; AAD15273.2
| M23473; AAD15273.2
| M23474; AAD15273.2
| M23476; AAD15273.2
| M23476; AAD15273.2
| M23477; AAD15273.2
| M23477; AAD15273.2
| M23479; AAD15273.2
| M23480; AAD15273.2
| M23481; AAD15273.2
| M23481; AAD15273.2
| M23484; AAD15273.2
| M23484; AAD15273.2
| M23484; AAD15273.2
| M23486; AAD15273.2
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A46546; A46546.
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IPR008957; FN_III-like.
IPR000387; TYR_phosphatase.
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Signal; T-cell;
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                                             Dujon B., Sherman D., Fischer G., Durrens P., Casaregola S.,
Lafontaine I., de Montigny J., Marck C., Neuveglise C., Talla E.,
Goffard N., Frangeul L., Aigle M., Anthouard V., Babour A., Barbe V.,
Barnay S., Blanchin S., Beckerich J.M., Beyne E., Bleykasten C.,
Boisrame A., Boyer J., Cattolico L., Confanioleri F., de Daruvar A.,
Despons L., Fabre E., Fairhead C., Ferry-Dunazet H., Groppi A.,
Hantraye F., Hennequin C., Jauniaux N., Joyet P., Kachouri R.,
Kerrest A., Koszul R., Lemaire M., Lesur I., Ma L., Miller H.,
Nicaud J.M., Nikolski M., Oztas S., Ozier-Kalogeropoulos O.,
Pellenz S., Potier S., Richard G.F., Surenb M.L., Suleau A.,
Swennene D., Tekaia F., Wesolowski-Louvel M., Westhof E., Wirth B.,
Zeniou-Meyer M., Zivanovic I., Bolotin-Fukuhara M., Thierry A.,
Boucher C., Caudron B., Scarpelli C., Gaillardin C., Weissenbach J.,
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Yarrowia lipolytica CLIB99.
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25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Similar to tr|Q8TF88 Trichoderma virens Class V chitinase
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CARBOHYD
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Saccharomycetales; Dipodascaceae;
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RESULT
LP1A_DF
RA Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
RA Adams M.D., Celniker S.E., Richards S., Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutron G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Brandon R.C., Rogers Y.-H.C., Blazej R.G., Champe M., Pfeiffer B.D.,
RA Brandon R.M., Basu A., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,
RA Ballw R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.M.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Botshakov S.M.,
RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
RA Gerry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
RA de Pablos B., Delcher A., Bounes M., Dugan-Rocha S., Dukov B.C., Dunn P.,
RA de Pablos B., Delcher A., Bornes M., Dugan-Rocha S., Pleischmann W.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Gelbart W.M., Glasser K.,
RA Harris N.L., Harvey D.A., Heiman T.J., Hermandez J.R., Houck J.,
RA Harris N.L., Harvey D.A., Heiman T.J., Hermandez J.R., Houck J.,
RA Lasko P., Lei Y., Levitsky A.A., Li J.H., Li Z., Liang Y., Lin X.,
RA Lasko P., Lei Y., Levitsky A.A., Li J.H., Li Z., Liang Y., Lin X.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., McPherson D.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
RA Menner M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
RA Palazzolo M., Pittman G.S., Sannders R.D.C., Scheeler F., Shen H.,
RA Shen H.,
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Best Local S
Matches 7
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P11995; Q9VYM4;
01-OCT-1989 (Rel. 1
29-MAR-2004 (Rel. 4
25-JAN-2005 (Rel. 4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          01-OCT-1989 (Rel. 12, Created)
29-MAR-2004 (Rel. 43, Last sequence update)
25-JAN-2005 (Rel. 46, Last annotation update)
25-JAN-2005 (Rel. 46, Last annotation update)
Larval serum protein 1 alpha chain precursor (Hexamerin 1 alpha).
Name=Lep1-alpha; Synonyms=LSP1-a; ORFNames=CG2559;
Drosophila melanogaster (Fruit fly).
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Meoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            InterPro; IPR011583; Chitinase II.
InterPro; IPR001223; Glyco hydro 18.
InterPro; IPR001223; Glyco hydro 18AS.
Pfam; PF00704; Glyco hydro 18; 1.
ProDom; PD000471; Chītinase II; 1.
SMART; SM00636; Glyco 18; 1.
PROSITE; PS01095; CHITINASE 18; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Ephydroidea; Dro
NCBI_TaxID=7227;
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GO; GO:0016787; F:hydrolase activit
GO; GO:0005975; P:carbohydrate mett
GO; GO:0008152; P:metabolism; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Genoscope,
Submitted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=20196006;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          STRAIN=CLIB99;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 7; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (JUL-2004) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         383 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           STANDARD;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=10731132; DOI=10.1126/science.287.5461.2185;
ker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            œ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         43844 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 41; DB
Pred. No. 15;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         228C4FFD41D50361 CRC64;
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, Strong R., &

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Query Match
                                                                                                                                                     FlyBase; FBgn0002562; Lsp1-alpha.
GO; GO:0005616; C:larval serum protein co
InterPro; IPR000896; Hemocyanin_C.
InterPro; IPR005203; hemocyanin_C.
InterPro; IPR005204; hemocyanin_N.
Pfam; PF03723; Hemocyanin_C; 1.
Pfam; PF03723; Hemocyanin_N; 1.
Pfam; PF00372; Hemocyanin_N; 1.
                                                                  PRINTS; PR00187; HAEMOCYANIN. 1; FALSE_NEG.
PROSITE; PS00209; HEMOCYANIN 1; FALSE_NEG.
PROSITE; PS00210; HEMOCYANIN 2; 1.
Glycoprotein; Hemolymph; Multigene family; Signal;
SIGNAL 1 16
                                                                                                                                                                                                                                                                                                                                                                                                                          This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Spier E., Spradling A.C., Stapleton M., Strong R., Sun E., Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X., Wang Z.-Y., Wassarman D.A., Weinstock G.M., Weissenbach J., Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A., Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L., Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O., Gibbs R.A., Myers B.W., Rubin G.M., Venter J.C.; "The genome sequence of Drosophila melanogaster."; Science 287:2185-2195(2000).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=87060914; PubMed=3097321; Delaney S.J., Smith D.F., McClelland i "Sequence conservation around the 5' 1 genes of Drosophila melanogaster."; J. Mol. Biol. 189:1-11(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=22426069; PubMed=12537572;
Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
Hradecky P., Huang Y., Kaminker J.S., Milburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfield E.J., Bayraktaroglu L., Berman B.P.,
Bettencourt B.R., Celniker S.E., de Grey A.D.N.J., Drysdale R.A.,
Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
                                                                                                                                                                                                                                                                                                    EMBL; X03872; CAA27506.1; -.
EMBL; X03368; CAA27066.1; -.
EMBL; X7144; A27144.
HSSP; P04253; 1LLA.
                                                                                                                                                                                                                                                                                                                                                                                                             entities requires a license agreement (S or send an email to license@isb-sib.ch).

    -!- FUNCTION: Larval storage protein
of amino acids for synthesis of a
-!- SUBUNIT: Heterohexamer, composed

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                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 melanogaster.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       systematic review.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE SPECIFICITY: Larval hemolymph. SIMILARITY: Belongs to the hemocyanin family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SUBCELLULAR LOCATION: Extracellular TISSUE SPECIFICITY: Larval hemolymph
                                                                                                                                                                                                                                                                                                                                                                            AE003489; AAF48168.2; -.
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                                     816
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                                     AA;
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                                     98867
 83.3%;
                                     ME:
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 Score 40;
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                                     2D1C44176EB76194 CRC64;
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adult proteins (E
                                                   serum protein 1 alpha
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             proteins (By similarity)
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Length 816
                                                                                      Storage protein.
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Q6QIM5,
05-JUL-2004 (TrEM)
05-JUL-2004 (TrEM)
05-JUL-2004 (TrEM)
CD45 (Fragment).
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Q6QIM6;
05-JUL-2004
05-JUL-2004
05-JUL-2004
                                                                                            EMBL; AY NON_TER NON_TER
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NON_TER
                                                                                                                                                                                                                                                                                                Macaca nemestrina (Pig-tailed macaque).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                                                                                                                CD45 (Fragment).
Name=PTPRC;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Domain of the Abundant Lymp
Mol. Biol. Evol. 21:1504-15
EMBL; AY539697; AAS46952.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cercopithecus neglectus (Debrazza's monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.
PubMed=15014144; DOI=10.1093/molbev/msh111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Name=PTPRC;
                                                                            SEQUENCE
                                                                                                                                                                                                         PubMed=15014144; DOI=10.1093/molbev/mshll1;
Filip L.C., Mundy N.I.;
                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                  NCBI_TaxID=9545;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=36227;
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                                                                                                                                                   Mol. Biol. Evol.
                                                                                                                                                                                         "Rapid
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                                                                                                                                d Evolution by Positive Darwini, n of the Abundant Lymphocyte Pri Biol. Evol. 21:1504-1511 (2004).
AY539696; AAS46951.1; -.
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Evolution by Positive
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Similarity
7; Conserv
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77.8%;
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77.8%;
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Last annotation updat
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Last annotation updat
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Pred. No.
                     Pred. No.
                                     Score 39;
                                                                          D82A0CB0CED66758
                                                                                                                                                                                       Darwinian
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   Mismatches
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                                                                                                                                                                     Protein CD45 in
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                                     DB 2;
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                                     Length
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n Primates.";
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                                     77;
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 0;
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 Gaps
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YLYNKETKL

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RESULT
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Q9RM84
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Best Local S
Matches 7
                                                                             Matches
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Best Local
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                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
STRAIN-NCIMB 8052;
MEDLINE-20391274; PubMed=10937495;
Liyanage H., Holcroft P., Evans V.J., Keis S.,
Kashket E.R., Young M.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-MAY-2000 (TrEMBLrel. 13, 01-DEC-2001 (TrEMBLrel. 19, Putative transposes
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NON_TER
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SEQUENCE FROM N.A.
PubMed=15014144; DOI=10.1093/molbev/msh111;
Filip L.C., Mundy N.I.;
Filip L.C., Mundy N.Sitive Darwinian Selection in the Extracellular "Rapid Evolution by Positive Darwinian Selection in Primates.";
                                                                                                                                                                     EMBL; AJ250468;
SEQUENCE 455;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q9RM84
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05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                              Clostridium
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Bacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hylobates muelleri (Mueller's
Eukaryota; Metazoa; Chordata;
                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=1520;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Clostridium beijerinckii (Clostridium MP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=9588;
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                                                                                                                                                                                                                                                      'A new insertion sequence, ISCbl, from Clostridium beijerinckii NCIMB
                                                                                                                                                                                                               Mol.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Biol.
  367
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of the Abundant Lymphocyte Protein CD45 3iol. Evol. 21:1504-1511(2004).
AV539695; AAS46950.1; -.
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                                                                                                                                                                                                               Microbiol.
                                                                                 Similarity 7; Conser
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                                       YLYNKETK 8
  WLYNKETK 374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          YLYDKETK 17
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Firmicutes;
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                                                                                                                                                                     455 AA;
                                                                                   Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PRELIMINARY;
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                                                                                                                                                                                                            Biotechnol. 2:107-113(2000).
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                                                                                                                                                                     52691 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Primates;
                                                                                                     81.2%;
87.5%;
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87.5%;
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27,
27,
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Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 39;
Pred. No.
                                                                                 Pred. No. 44;
L; Mismatches
                                                                                                                         Score 39;
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Craniata; Vertebrata; Euteleostomi;
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                                                                                                                                                                     5C1902030AAF5E94 CRC64;
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                                                                                                                           DB 2;
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                                                                                                                           Length 455;
                                                                                                                                                                                                                                                                                                Wilkinson
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RESULT 13

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Q7RG88
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R Pfam; PF02450; LACT; 1.

R Pfam; PF04151; PPC; 2.

I Hydrolase.
SEQUENCE 715.
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Best Local S
Matches
                                                                                                                                                                                                                                                    PubMed=12368665; DOI=10.1038/nature01099;
Carlton J.M., Angiuoli S.V., Suh B.B., Kooij T.W., Pertea M.,
Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L.,
Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L.,
Peterson J.D., Pop M., Kosack D.S., Shunway M.F., Bidwell S.L.,
Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V.,
Cho J.K., Quackenbush J., Sedegah M., Shoaibi A., Cummings L.M.,
Florens L., Yates F.R. III, Raine J.D., Sinden R.E., Harris M.A.,
Cunningham D.A., Preiser P.R., Bergman L.W., Vaidya A.B.,
van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R.,
van Lin L.H., Janse C.J., Waters A.P., Smith H.O., White O.R.,
Salzberg S.L., Venter J.C., Fraser C.M., Hoffman S.L., Gardner M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Q7RG88;
01-MAR-2004 (TrEMBLrel. 26,
01-MAR-2004 (TrEMBLrel. 26,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q59208
Q59208;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=17XNL;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=73239;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Plasmodium yoelii yoelii.
Eukaryota; Alveolata; Apicomplexa; Haemospoxida; Plasmodium.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Name=PY04459;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Guanylyl cyclase-related
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q7RG88
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GO; GO:0008233; F:peptidase activity; IEA.
GO; GO:0004607; F:phosphatidylcholine-sterol O-acyltransferas. . .; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Alvarez-Macarie E., P
Submitted (SEP-1995)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              STRAIN=LCB40;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacillus licheniformis.
Bacteria; Firmicutes; E
NCBI_TaxID=1402;
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01-NOV-1996 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
                                                                   EMBL;
                                                                                                                                                            parasite Plasmodium yoelii yoelii.";
Nature 419:512-519(2002).
                                                                                                                                                                                                                                          Carucci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; U35855; AAA79183.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Name=est;
                                                                                                                                                                                                                 "Genome sequence and comparative analysis
                      GO:0003824; F:catalytic activity; GO:0008152; P:metabolism; IEA.
                                                                                                                  CAUTION: The sequence shown EMBL/GenBank/DDBJ whole geno
                                                              preliminary data.; AABL01001358; EAA16324.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GO:0006629; P:lipid metabolism;
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  IPR001757;
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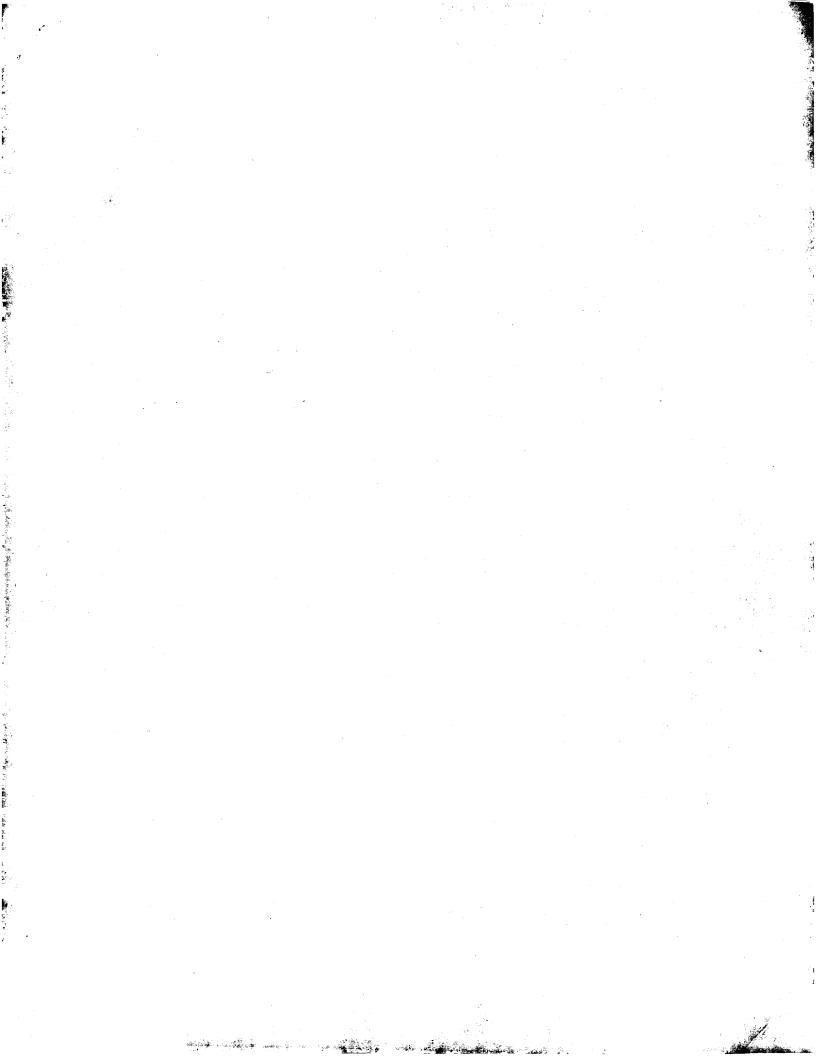
A Luedeking A., Winzer K., Koehler A.;

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01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
01-OCT-2003 (Fragment).
Mytilus edulis (Blue mussel).
Eukaryota; Metazoa; Mollusca; Bivalvia; Pteriomorphia; Mytiloidea; Mytiloidea; Mytilus.
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NON TER
SEQUENCE
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Pfam; PF00702; Hydrolase; 1.
PROSITE; PS00154; ATPASE El E2; UNKNOWN 1.
SEQUENCE 2228 AA; 262353 MW; 45288463DBF9AF77 CRC64;
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ProDom; PD000742; DNA_topoisoIV; 1.
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87.5%;
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Minimum DB
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Copyright (c) 1993 - 2005 Compugen Ltd.
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90.001 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	v	.4.	ω	N		Result No.
4.8	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	Score
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1304	1304	1304	1304	1267	1258	1256	1256	1219	1192	1149	1149	1143	1143	1143	1143	1114	1114	664	664	641	641	553	553	9	Length
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Adl16230 Human pro	Abu05244 Human exp	Abu05241 Human exp	Human	Human	Adq39376 Human myo	Adp12966 Protein e	Adm67187 Human adi	Adq39378 Human myo	Adr39747 Human kin	Human	Aam41048 Human pol	Adq18845 Human sof	Adl16232 Human pro	Abu05245 Human exp	Abu05240 Human exp	Abu05239 Human exp	Abu05246 Human exp	Abu07334 Human exp	Aam39262 Human pol	Abu07333 Human exp	Aam23689 Human EST	Abu07335 Human exp	Aaw35856 Human CD4	Abg31978 Human CD4	Description

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner where the CTL and the antigen presenting cell are allogenic with respondence of the class I MHC molecule that is presenting peptides of CD45. The content of the class I MHC molecule that is presenting peptides of CD45.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

ALIGNMENTS

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ARBSULT 2
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Matches S
A novel T lymphocyte veto molecule is a chimeric molecule comprising a protein, e.g. the present sequence, linked to a targetting polypeptide that binds a molecule, which differentiates a host cell from a tissue graft cell, or selectively targets a stimulator cell involved in the autoimmune response. A veto molecule, in which the protein binds a
                                                                                                                                                                                                                                                                                                       Tlymphocyte veto molecule comprising response cell activating protein linked to molecule that targets stimulator cell marker, used for selective suppression of immune response, e.g. prevention of graft rejection or treatment of auto-immune disease.
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The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription faction polypeptide is useful as an immunogenic composition for eliciting the polypeptide is useful as an immunogenic composition for eliciting polypeptide.

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proteins from a variety of organisms, including human, dog, cat, ho cow, pig, hamster, monkey, macague, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present semicona.
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                                                                                                                                Claim
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17-JUL-2000; 2000US-00617746.
03-AUG-2000; 2000US-00631451.
15-SEP-2000; 2000US-00663870.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse; tomato; monkey; dog; sea urchin; expressed sequence tag; EST; diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
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The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed profiling. Note: This sequence for translational content of the printed profiling and the above mentioned diseases. This sequence for translational profiling. Note: This sequence does not appear in the printed profiling and the 
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Translational profiling; expressed protein tag; EPT; kinase; pho protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       leukemia.
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Pred. No.
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Best Local
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21-JAN-2000;
25-APR-2000;
20-JUN-2000;
19-JUL-2000;
The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polypucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/Chemokinetic activity, haemostatic
                                                                                                                                                                                                                                         Tang
Wang
Zhou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 641 AA;
                                                                                                                                                                   Novel nucleic acids and polypeptides, useful as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                      N-PSDB;
                                                                                                                                                                                                                                                                                                                                    03-AUG-2000;
14-SEP-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAM39262 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                  26-DEC-2000; 2000WO-US034263.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         26-JUL-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human; nootropic; immunosuppressant; cytostatic;
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                                                                                                                                                                                                                                                                                        (HYSE-)
                                                                                                                                                                                                                                                                                                              29-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             leukaemia.
                                                                                                                                                                                                                   2001-442253/47.
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Wang Z,
Goodrich
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2000US-00552317.

2000US-00598042.

2000US-00620312.

2000US-00623450.

2000US-00662191.

2000US-00693036.

2000US-00693036.
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Wehrman T,
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Xu C,
IC RT;
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Pred. No.
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Xue
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                                                                                                                                                                               for treating disorders
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Zhang
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J, Zhao QA;
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Best Local S
Matches 9
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                                   fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                    04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                         28-MAR-2001;
21-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Translational profiling; expressed protein tag; EPT; kina protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                               The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor
                                                                                                                                                                                                                                                           New polypeptides (e.g.
                                                                                                                                                                                                                                                                                     WPI; 2003-040607/03.
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                       myeloma,
                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                 treating
                                                                                                                                                                                                                                           cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
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            ymphoma
                                                                                                                                                                                                                                                                                                                RM,
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colon cancer, gastric cancer, adenocarcinoma, sarcoma, or leukaemia. These are also useful for screening agent the above mentioned diseases. This sequence represents
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; 2001US-0292544P.
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(EPT) isolated from human tissue for translational

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08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336730P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                   fragment of a kinase, phosphatase, protease protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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specification but was
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colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, or leukaemia. These are also useful for screening agents for the above mentioned diseases. This sequence represents an
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08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                       New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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major histocompatability complex; myeloma; colon cancer;
adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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                                                                                                                                                                                                                                                                                                                                               Urban
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Pred. No. 9.6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           transporter;
                                                                                                                                                                                                                                                                                                                                               RG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EPT; kinase; phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gastric
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RESULT 10
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Matches
                                             transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against amy of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MIC-binding polypeptide. The polypeptides and polypuctides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                           28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0392544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10-OCT-2002
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                                                                                                                                                                                            The invention describes a purified polypeptide, which comprises
                                                                                                                                                                                                                                                                                       New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-MAR-2002; 2002WO-US009671
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                                   myeloma,
                                                                                                                                                        fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor.
                                                                                                                                                                                                                                                                        treating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                  (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity
colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, or leukaemia. These are also useful for screening agents for the above mentioned diseases. This sequence represents an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   YLYNKETKL 55
                                                                                                                                                                                                                                                                                                                                                                   Tomlinson
                                                                                                                                                                                                                         SEQ ID NO 1906; 134pp; English
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                                                                                                                                                                                                                                                                        cancer, gastric
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Pred. No.
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                                                                                                                                                                                                                                                                        cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                       lymphoma or
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RESULT 11
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Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326770P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protease; protease innibilo, ......r: MHC; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                         The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Translational profiling; expressed protein tag; protease; protease inhibitor; transporter; cytos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human expressed
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                                                   myeloma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-040607/03.
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                                                                                                                                                                                                                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (ZYCO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RM,
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  colon cancer, gastric cancer, adenocarcinoma, sarcoma, or leukaemia. These are also useful for screening agenthe above mentioned diseases. This sequence represents
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         YLYNKETKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cancer, e.g. colon cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard;
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                                                                                                                                                                                                                                                                                                                                                                                          SEQ
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Pred. No. 9.9;
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                                                                                                                                                                                                                                                                                                                                                                                          English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gastric cancer;
                                  agents for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
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(EPT) isolated from human tissue for translational

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RESULT 12
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          The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) phosphatase (PTP) that is reversibly oxidized in a cell by: (i) solating a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); are involved. These agents are potentially useful.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                       Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       21-AUG-2003
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specification but was obtained in electronic format directly from WIPO
ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                            Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (COLD-) COLD SPRING HARBOR LAB. (CEPT-) CEPTYR INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cytostatic; immunosuppressive; antiallergic;
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profiling. Note: This
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                                                                                                                                                                                                                                                                                       SEQ ID NO 81; 238pp; English
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Pred. No. 9.9;
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allergy or other and cell-cycle
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YLYNKETKL YLYNKETKL Matches

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                                                                                           The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the
                                                                                                                                                                                                                                                                                                                         Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                        Sequence 1143 AA;
                                                                                 specification per
                                                                                                                                                                                                                                                                                                                                                                                  WPI; 2004-441208/41.
                                                                                                                                                                                                                                                                                                                                                                                                             Aziz N
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human soft tissue sarcoma-upregulated protein -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-AUG-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-NOV-2003; 2003WO-US038193
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                                                                                                                                                                                                                                                                                                                                                                                                                                         (PROT-)
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9; Conserv
                                                                                                                                                                                                                                                                                  2;
                 Similarity
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                                                                                                                                                                                                                                                                                SEQ ID NO 1664; 210pp;
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                                                                                   se but was submitted
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Score 48; DB Pred. No. 9.9); Mismatches
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Pred.
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                                                                                                                                                                                                                                                                                  English.
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No.
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             9.9;
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                          Length 1143;
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AAM41048 standard; protein; 1149 AA.

22-OCT-2001

(first entry)

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ARMSULT 14
AAMA11
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CKW Chemoo
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21-JAM-2000; 2000US-00487725.
25-APR-2000; 2000US-00552317.
20-JUN-2000; 2000US-00552312.
19-JUL-2000; 2000US-00620312.
03-AUG-2000; 2000US-00662191.
19-CCT-2000; 2000US-00662193.
                                                                                                                                                                                                                The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         peripheral nervous system; neuropathy; central nervous system; CNS; parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemostactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human polypeptide
                                                                                                                                                  Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel nucleic acids and polypeptides, useful for treating disorders such as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     26-JUL-2001
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                                                Similarity 9; Conserv
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Wang Z,
Goodrich
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                                                   Conservative
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Wehrman T,
h R, Drmanac
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Drmanac RT;
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Yang Y,
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Zhang
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J, Zhao
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RESULT 15
ABU05242
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                                                                                                                  The invention describes a purified polypeptide, which comprises a configuration of a kinase, phosphatase, protease, protease inhibitor. The transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polymenterial processed class I or class I mHC-binding polypeptide. The polypeptides and polymented in the polymenting or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from MIPO at
Query Match
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Matches 9
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
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                                                                      Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2; SEQ ID NO 1908; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-040607/03.
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                                                                                                       ftp.wipo.int/pub/published_pct_sequences
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Similarity
9; Conserv
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100.0%; ilarity 100.0%; Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ą
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Urban RG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (EPT) #1908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1149
   0
Score 48; DB 6
Pred. No. 9.9;
0; Mismatches
                                    6,
   <u>.</u>
                                    Length 1149;
     Indels
   <u>.</u>
   Gaps
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YLYNKETKL

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0

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Query Match
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100.0%;

Score 48;

В 8

Length 1192

protein

Sequence

1192

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RESULT 16
ADR39747
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Ramkumar J, Marianta SD, Lee SY, Ha
                         nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, anti-HIV, method antiinflammatory and thyromimetic activities, and can be used in gene therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polymucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2003; 2003US-0449059P.
12-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-045844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                            New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy; developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
                                                                                                                                                                                                                                                                       The present sequence represents the human kinase and phosphatase p (KPP), designated KPP-20. The human KPP sequences from the present invention have cytostatic, antiarteriosclerotic, anticonvulsant,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective;
cerebroprotective; anti-HIV; antiallergic; antiinflammatory;
                                                                                                                                                                                                                                                                                                                                               Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                    N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-635568/61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-FEB-2004; 2004WO-US005092.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  02-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2004074453-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human kinase and phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADR39747
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (INCY-) INCYTE CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          81
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          YLYNKETKI.
                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 20; 299pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Marquis JP, Swarnakar A, see SY, Hafalia AJA, Rich Yang J, Gorvad AE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            phosphatase protein; KPP; enzyme;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          89
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein; 1192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               KPP-20 protein SEQ ID NO:20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Richardson TW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chawla NK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Khare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tran UK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      æ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Jiang
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RESULT 17
ADQ39378
                                                       The invention relates to a novel method for identifying an individual who CC has an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of CC the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody CC that specifically binds to the polypeptide or its antigen-binding CC that specification and which is between about 16 and 1000 nucleotides in CC specification and which is between about 16 and 1000 nucleotides in CC polymucleotide, a buffar and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a mucleic acid molecule; a method of detecting a variant polypeptide; and a mucleic acid molecule; a method of detecting a variant polypeptide; and a mucleic acid infarction. The novel detection method has cardiant activity. The mucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Best Local Similarity
Matches 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
sequence represents the protein of a human myocardial infarction-
associated gene containing one or more SNP's of the invention. No
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cardiant; gene therapy; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human myocardial infarction-associated gene derived protein, SEQ ID 1041.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADQ39378;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Myocardial infarction; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       125 YLYNKETKL 133
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10; SEQ ID NO 1041; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 YLYNKETKL
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Iakoubova
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0
Note:
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an electronic sequence listing downloaded from the WIPO website.

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RESULT 18
ADM67187
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        H
                                         This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anticobesity pharmaceutical compositions. Specifically, it refers to a high cobesity pharmaceutical compositions. Specifically, it refers to a high combility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (MAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obseity, thypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obseity. These compositions exhibit anorectic, antidiabetic and thypotensive activities. This polypeptide sequence is a human homologue of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1219 AA;
                                                                                                                                                                                                                                                                                                                                                                               Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   high mobility group I-C protein; HMGI-C; obesity; adipogenesis; hypertension; cardiovascular disease antidiabetic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human adipocyte specific PTPase receptor type C protein SeqID
                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 541; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2002; `2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2004011618-A2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HMGE-) HMGENE INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     29-JUL-2003; 2003WO-US023684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2004-143846/14.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     adipocyte specific; adipose
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1 YLYNKETKL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADM66908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chouinard
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sayed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     tissue; anti-obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   obesity; leptin; ob; diabetes; ar disease; anorectic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        DB
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Sequence 1256 AA

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YLYNKETKL

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RESULT 19
ADP12966
ID ADP12
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                                                                                                                               transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in a xenotransplant rejection or mechanical organ replacement rejection, in a individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lungs, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered
                                                                                                                                                                                                                                                               The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an indivicomprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring
                                                                                                                                                                                                                                                                                                                                                                                Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                          Claim 65; SEQ ID NO 2975; 1762pp; English
                                                                                                                                                                                                                                                                                                                                                                       the genes
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20-DEC-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           transplant rejection; immune system; rheumatoid inflammatory bowel disease; multiple sclerosis;
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                                                                                                                   expression
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ilarity 100.0%;
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2002US-00325899.
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100.0%; Pred. No. 11;
tive 0; Mismatches
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RESULT 20
ADQ39376
                                              specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in nucleic acid molecule; a method of detecting a variant polypeptide; and method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or proventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic semence listing downloaded from the arpo. Website
                                                                                                                                                                                                                                                                                                                   nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification, an isolated polypeptide comprising an amino acid sequence given in the specification, an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-DEC-2002; 2002US-0434178P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nucleic acids, where the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10; SEQ ID NO 1039; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Myocardial infarction; detection; single nucleotide
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                                      electronic
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                                      sequence listing
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        to a novel method for identifying an individual who
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  developing myocardial infarction.
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                                      downloaded from the
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                                    the invention. Note sequence has come he WIPO website.
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                                                                                                                             the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length, a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and emethod for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased view for description may be used in gene therapy. The
              associated gene containing one or more SNP's of the invention. Note: sequence was not shown in the specification. The sequence has come fi an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                  has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises an isolated nucleic acid molecule comprising at least
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10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                           composition for treating or preventing myocardial infarction. Thi sequence represents the protein of a human myocardial infarction-
                                                                                                                 method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 10; SEQ ID NO 1042; 145pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
                                                                                                                                                                                                                                                                                                                                                                                                   8 contiguous nucleotides where one of the nucleotides is an SNP given
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel method for identifying an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the individual's nucleic acids.
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           myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (BPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                         mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                       New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0392544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; mHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1267
                                                                                                                                                                                                                          The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens.
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                                                                                                                                                                                                                                                                                                             Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ZYCO-) ZYCOS INC
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                                                                                                                                                                                                                                                                                                           SEQ ID NO 1909; 134pp; English
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Pred. No.
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Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protease; protease innibitor, cancer; MHC; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; coadenocarcinoma; sarcoma; melanoma; lymphoma;
      mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                           New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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04-DEC-2001;
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08-AUG-2001;
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                                                                                                                                                                                                                The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in
                                                                                                                                                                                                                                                                                                  Example 2;
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Tomlinson
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; 2001US-0292544P.
; 2001US-0310801P.
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ilarity 100.0%;
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a; leukaemia.
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                             fragment of a kinase, phosphatase, protease, protease inhibitor, cytoskeletal protein, receptor or transcription factor. The collection of the purified as an immunogenic composition for eliciting in a command an immunogenic response directed against any of the purified polypeptide. The purified polypeptide or the antibody that binds to this collection of the purified polypeptide, or the antibody that binds to this collection of the centifying compounds that binds to a naturally processed conseful for identifying compounds that binds to a naturally processed colless I or class II MHC-binding polypeptide. The polypeptides and colless I or class II MHC-binding polypeptide. The polypeptides and collectides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an cappedition but was obtained in electronic format directly from WIPO at the properties of the proper
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; mHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                           The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human expressed protein tag (EPT) #1910.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO
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Pred. No.
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                                                                                               The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); medicine, for treating abnormal cell proliferation or growth (cancer);
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                                                 guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
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12-FEB-2003; 2003US-00366547
                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; SEQ ID NO 79; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                        cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying reversibly oxidized protein tyrosine phosphatase, use screening for specific modulators, potential agents for treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human protein tyrosine phosphatase #26
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100.0%; Pred. No. 11.
tive 0; Mismatches
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Sequence 1304 AA,

Query Match

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Length 1304;

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RESULT 26
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CC patient sample containing mRNA, analysing gene expression using the mRNA CC that results in a gene expression signature of the mRNA, and using that CC gene expression signature to diagnose or analyse the autoimmune disease CC or arthritides in the patient, where gene expression of at least 60% of CC the genes correlates with that of the gene signature. The invention CC further comprises: a treatment of rheumatoid arthritis; in a mammal CC other than a mouse; diagnosis of rheumatoid arthritis; in a mammal CC efficacy or gene chip, specific for rheumatoid arthritis; diagnosis or CC analyses of autoimmune disease or rheumatoid arthritis; diagnosis or CC analyses of autoimmune disease or rheumatoid arthritis; screening the CC induced arthritis; and reducing the symptoms associated with collagen-CC induced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, CC antigut, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for CC diagnosing and treating autoimmune disease or arthritides, such as CC rheumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia and
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Disclosure; Page; 56pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-AUG-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rheumatoid arrhritis; collagen-induced; immunosuppressive; antirheumatiantiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; Fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       autoimmune disease; arthritide; gene expression analysis;
                                                                                                                                                                                                                                                                                                                                                                                                             autoimmune disease or arthritides.
                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to a novel method for diagnosing and analysing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               immune; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          rheumatoid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    arthritis; collagen-induced;
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Pred. No. 11;
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RESULT 27
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                                             This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anticoverity pharmaceutical compositions. Specifically, it refers to a high combility group I-C protein (RMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the obgene where an composition describes performing differential gene expression analysis invention describes performing differential gene expression analysis of any two different mice selected from a group consisting of wild-type, compounds that are adipose and the encoded proteins thereof were confidentified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, the compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or and the compositions are adipoted to the confidence of the compounds that can modulate or prevent adipotents are adiabetes or compounds that can modulate or prevent adipotents are adiabetes.
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Best Local :
obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human hor a murine adipocyte specific protein sequence of the invention
                                                                                                                                                                                                                                                                                                                                                           Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADM67209
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Chada K,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       adipogenesis;
antidiabetic;
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12-JUN-2003;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human; adipocyte specific; adipose tissue; anti-obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (HMGE-) HMGENE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  2004-143846/14.
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2003US-0478206P
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hypertension; cardiovascular disease; anorectic;
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                                                                                                                                                                                                                                                                                                                               NO 563;
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Pred. No.
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                     is a human homologue of
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The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-associated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above-mentioned nucleotide sequences, an isolated polypeptide (encoded within CC an open reading frame of a CA sequence selected from any of the 95 cplynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above consocional antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer condividual, a method for inhibiting growth of cancer cells in an antidividual, an electronic library comprising the above condividual, a method for inhibiting growth of cancer cells in an antidividual, an electronic library comprising the above
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14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      claim 18; seqid 147; 310pp; English.
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nes 9; Conserv
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Pred. No.
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RESULT 29
ADQ39380
ID ADQ39
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polynucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bloactive agent capable of modulating the activity of a CA protein (CAP), methods for detecting cancer associated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of CA gene in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a human CAP protein sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                              Identifying an individual who has an myocardial infarction by detecting a the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                      20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                        Claim
                                                                                                                                                                                                                  N-PSDB;
                                                                                                                                                                                                                                                      Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Myocardial infarction; detection; single nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADQ39380 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                     22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                                                                 15-JUL-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                          WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
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                                                                                                                                                                                                                                                                                (APPL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                              2004-533949/51.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          237 YLYNKETKL 245
                                                                                                                                        10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              myocardial infarction-associated gene derived
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                                                                                                                                                                                                                  ADQ38552
                                                                                                                                                                                                                                                                                APPLERA CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Similarity
                                                                                                                                     SEQ ID NO 1043; 145pp;
                                                                                                                                                                                                                                                      Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                    English.
                                                                                                                                                                          altered risk for developing single nucleotide polymorphism
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polymorphism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SNP;
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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises an isolated nucleic acid molecule comprising at least contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide

individual who

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RESULT 30
ADQ39375
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
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Best Local Similarity
The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                  Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                       Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human myocardial infarction-associated gene derived protein, SEQ ID 1038
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Cargill M, Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2004058052-A2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1304 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (APPL-) APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                                                                                                    2004-533949/51.
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                                                                                                                                                                                                                                                                                                                                                                                                        ADQ38547.
                                                                                                                                                                                                    SEQ
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (first entry)
                                                                                                                                                                                                ID NO 1038; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Iakoubova 0;
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                                                                                                                                                                                                                                                                                                 polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0;
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CC altered risk for myocardial infarction in the individual. The invention CC further comprises; an isolated nucleic acid molecule comprising at least CC sontiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody CC that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC specification and which is between about 16 and 1000 nucleotides in CC nucleic acid molecule; a method of detecting an SNP in a nucleic acid, comprising the CC method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. This
Sequence 1306 AA;
                                              associated gene containing one or more SNP's of the invention. Note: sequence was not shown in the specification. The sequence has come fi an electronic sequence listing downloaded from the WIPO website.
                                                                                          has come from
                                                                                                                         This
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Query Match Best Local S Matches Local Similarity 239 1 YLYNKETKL 9; ATANKETKT Conservative 247 9 100.0%; 0 Score 48; DB Pred. No. 11; Mismatches 8 ,, 0 Length 1306; Indels 0; Gaps

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Search completed: May 3, 2005, 07:35:35 Job time : 52.6757 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.

OM protein - protein search, using sw model
Run on:
May 3, 2005, 05:49:25; Search time 6.68919 Seconds (without alignments)
129.455 Million cell updates/sec
Fitle:
Sequence:
US-10-003-983C-9
Perfect score: 46
Sequence:
1 LILDVPPGV 9

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5
Searched:
283416 seqs, 96216763 residues

Total number of hits satisfying chosen parameters:
283416
Minimum DB seq length: 000000000

Post-processing: Minimum Match 0%
Maximum Match 0%
Listing first 45 summaries

Database:
PIR 79:*
1: pir1:*
3: pir2:*
3: pir2:*
4: pir4:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

45	44	43	42	41	40	39	38	37	36	35	υ 4	u u	32	31	30
35	35	35	35	35	35	35	35	35	35	35	36	36	36	36	36
76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	76.1	78.3	78.3	78.3	78.3	78.3
263	254	254	209	209	202	196	194	194	194	194	809	602	435	386	383
N	N	N	N	N	N	N	N	N	N	N	N	N	N	N	N
T04056	E69533	F69547	C86595	D72029	AI0720	C82107	E90842	B85700	S16753	H83060	T39094	G75278	T45199	A64114	B87044
hypothetical prote	nucleotide-binding	nucleotide-binding	enodnuclease III [endonuclease III C	aminoacyl-tRNA hyd	peptidyl-tRNA hydr	peptidyl-tRNA hydr	peptidyl-tRNA hydr	aminoacyl-tRNA hyd	peptidyl-tRNA hydr	WD domain, G-beta	N-acetylmuramoyl-L	probable mrp prote	probable ATPase mr	MRP-family ATP-bin

ALIGNMENTS

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A;Cross-references: C;Genetics: C;Genetics: A;Gene: GDB:PTPRC; CIA;Cross-references: C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lectin, 205K, large granular lymphocyte - pig
C;Species: Sus scrofa domestica (domestic pig)
C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 09-Jul-2004
C;Accession: S32461
R;Bezouska, K; Krajhanzl, A,; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Map position: 1q31-1q32
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoeste F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC> F;675-999/Domain: protein-tyrosine-phosphatase homology <PTP> F;675-999/Domain: protein-tyrosine-phosphatase homology <PTP> F;857/Active site: Cys (phosphorysteine intermediate) #status predicted F;857/Binding site: substrate phosphate (Arg) #status predicted
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C;Superfamily:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         RESULT
S32461
                                                                                                                                                                                                       A; Molecule type: DNA
A; Residues: 1-350 < STO>
                                                                                                                                                                                                                                                                                                                                                         ATP-binding Mrp protein (Mrp/Nbp35 family) BH0240 [imported] - Bacillus hal C;Species: Bacillus haldurans C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004 C;Accession: H83679
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Felsberg, J.; Kenter, J. Biochem. 213, 1303-1313, 1993
A;Title: Characterization of the high-affinity oligosaccharide-binding site of the 205-1A;Reference number: S32461; MUID:93279332; PMID:8504822
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   밁
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                                                                                                                                                                      A; Experimental source: strain
                                                                                                                                                                                                                                            A; Status: preliminary
                                                                                                                                                                                                                                                               A; Accession: H83679
                                                                                                                                                                                                                                                                                 R;Takami, H.; Nakasone, K.; Takaki, Y.; Maeno, G.; Sasaki, R.; Masui, N.; Fuji, Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodu: A;Reference number: A83650; MUID:20512582; PMID:11058132
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Accession: S32461
A;Status: prelimina
                                                                                                              ;Superfamily:
                                        Matches
                                                                           Query Match
                                                                                                                                                                    Cross-references: UNIPROT:Q9KG72; GB:AP001507; GB:BA000004; NID:g10172612; PIDN:BAB03 Experimental source: strain C-125
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Best Local
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   1 LILDVPPG
                                    Similarity 7; Conserv
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8; Conserv
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                                                                                                              probable membrane protein YIL003w
                                                        84.8%;
87.5%;
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100.0%; Pred. No.
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Pred. No.
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Pred. No. 3
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R;Stover, C.K.; Pham, X.Q.; adman, S.; Yuan, Y.; Brody, .; Lory, S.; Olson, M.V.
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C;Superfamily: conserved
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A; Residues: 1-354 < KUR >
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Matches 6
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66.7%;
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                   Erwin, A.L.; Mizoguchi,
L.L.; Coulter, S.N.; Fo
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A;Status: F-2---
A;Nolecule type: DNA
A;Rolecule type: DNA
A;Residues: 1-242 <KAW>
A;Residues: 1-242 <KAW>
A;Cross-references: UNIPROT:Q9V147; GB:AJ248284; GB:AL096836; NID:g5457730;
A;Cross-references: Strain Orsay
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A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus aureus. A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: A99012
                                                                  conserved hypothetical protein PA5135 [imported] - C;Species: Pseudomonas aeruginosa C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     submitted to the EMBL Data Library, July A;Description: Pyrococcus abyssi genome s A;Reference number: A75001 A;Accession: A75178
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        C;Species: Pyrococcus abyssi
C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999 #text_change 09-Jul-2004
C;Accession: A75178
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C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
C;Accession: A90012
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A;Experimental source: strain N315
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Pred. No.
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Pred. No.
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oguchi, S.D.; Warrener,
.N.; Folger, K.R.; Kas,
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                                                                                                                   Pseudomonas aeruginosa (strain
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Nature 413, 848-852, 2001
A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.;
A;Title: Complete genome sequence of a multiple drug resistant
A;Reference number: AB0502; MUID:21534947; PMID:11677608
A;Accession: AG0776
                                                                                                                                                                                                                                                                                                          conserved hypothetical protein STY2383 [imported] - Salmonella enterica sub C;Species: Salmonella enterica subsp. enterica serovar Typhi A;Note: this species has also been called Salmonella typhi C;Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 18-Nov-2002 C;Accession: AG0776
A;Cross-references: GB:AL513382; PIDN:CAD02533.1; PID:g16503394; C;Genetics: C;Genetics: A;Gene: STY2383 C;Superfamily: conserved probable membrane protein YIL003w
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A;Introns: 34/3; 60/3; 87/1
C;Superfamily: conserved pr
                                                                                A; Molecule type: DNA
A; Residues: 1-369 < P.
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R;Parkhill, J.; Dougan, G.; James, K.D.; J
th, T.; Connerton, P.; Cronin, A.; Davis,
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A; Residues: 1-331 <SCH>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       C;Species: Neurospora crassa
C;Date: 20-Oct-2000 #sequence_revision
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Best Local
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Experimental source: strain PAO1
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LVLDLPPG 192
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                                                                                                                                                                                                                                                                 K.D.; Thomson, N.R.; Pickard, D.; Wain, J.; Cl Davis, P.; Davies, R.M.; Dowd, L.; White, N.;
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probable ATPase [imported] - Escherichia coli (strain O157:H7, substrain RIMD 05 (Species: Escherichia coli (C;Species: Escherichia coli (C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004 C;Accession: G90993 R;Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Hgasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H. DNA Res. 8, 11-22, 2001 A;Ritle: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7 A;Reference number: A99629; MUID:21156231; PMID:11258796
                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 10
G90993
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                                                         A;Gene: ECs291:
C;Superfamily:
                                                                                                                        A;Molecule type: DNA
A;Residues: 1-379 <HAPO
A;Cross-references: UNIPROT:Q8X7E8; GB:BA000007; PIDN:BAB36342.1;
A;Experimental source: strain O157:H7, substrain RIMD 0509952
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R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; Riley, M.;
.A.; Rose, D.J.; Mau, B.; Shao, Y.
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C;Superfamily: conserved probable membrane protein YIL003w
C;Keywords: nucleotide binding; P-loop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 11-379 <DAR>
A;Cross-references: EMBL:X55791; NID:g42015; PIDN:CAA39316.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Science 277, 1453-1462, 1997
A;Title: The complete genome sequence of Escherichia coli
A;Reference number: A64720; MUID:97426617; PMID:9278503
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               probable ATPase mrp - Escherichia coli (strain K-12)
C;Species: Escherichia ^^1;
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A; Residues: 1-379 <BLAT>
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C;Accession: H64978; S11948
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                                                              probable membrane protein YIL003w
82.6%;
75.0%;
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Pred. No.
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26;
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Best Local Similarity

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RESULT 13
F97445
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C; Superfamily: <
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Science 294, 2317-2323, 2001
Science 294, 2317-2323, 2001
A;Authors: Yoo, H.; Tao, Y.; Biddle, P.; Jung, M.; Krespan, W.; Perry, M.; Gordon-Kamm,
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C; Superfamily: conserved
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A; Residues: 1-388 < KUR>
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C;Accession: AG2663
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C;Species: Agrobacterium tumefaciens
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C; Accession: B85839
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;Authors: Yoo, H.;
ter, E.W.
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                 Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58 Reference number: AB2577; MUID:21608550; PMID:11743193
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                                                                                  240 LVLDMPPG 247
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Pred. No.
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)imalanta, E.;
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Potamousis,
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K.; Apodaca,
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RESULT 15
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R;Simpson, A.J.G.; Reinach, F.C.; Arruda, P.; Abreu, F.A.; Acencio, M.; Alvarenga, R.; A Briones, M.R.S.; Bueno, M.R.P.; Camargo, A.A.; Camargo, L.E.A.; Carraro, D.M.; Carrer, H. as-Neto, E.; Docena, C.; El-Dorry, H.; Facincani, A.P.; Ferreira, A.J.S. submitted to GenBank, June 2000
A;Authors: Ferreira, V.C.A.; Ferro, J.A.; Fraga, J.S.; Franca, S.C.; Franco, M.C.; Frohm J.D.; Junqueira, M.L.; Kemper, E.L.; Kitajima, J.P.; Krieger, J.E.; Kuramae, E.E.; Laigr Chado, M.A.; Madeira, A.M.B.N.; Madeira, H.M.F.; Marrino, C.L.; Marques, M.V.; Martins, E.A.,Authors: Martina, E.M.F.; Matsukuma, A.Y.; Menck, C.F.M.; Miracca, E.C.; Miyaki, C.Y.; F.G.; Nunes, L.R.; Oliveira, M.A.; de Oliveira, M.C.; de Oliveira, R.C.; Palmieri, D.A. Rodrigues, V.; Rosa, A.J. de M.; de Rosa Jr., V.B.; de Sa, R.G.; Santelli, R.V.; Sawasak A;Authors: da Silva, A.C.R.; da Silva, F.R.; da Silva, A.M.; Silva Jr., W.A.; da Silva M.; Tsuhako, M.H.; Vallada, H.; Van Sluys, M.A.; Verjovski-Almeida, S.; Vettore, A.L.; Za, Reference number: A59328
닭
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: GB:AE003904; GB:AE003849; NID:g9105433; PIDN:AAF83390.1; GSPDB:GN001
A;Experimental source: strain 9a5c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Title: The genome sequence of the plant pathogen Xylella fastidiosa. A;Reference number: A82515; MUID:20365717; PMID:10910347 A;Note: for a complete list of authors see reference number A59328 bel A;Accession: F82788
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                thymidylate kinase XF0580 [imported] - Xylella fastidiosa (strain 9a5c)
C;Species: Xylella fastidiosa
C;Date: 18-Aug-2000 #sequence_revision 20-Aug-2000 #text_change 02-Sep-2000
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A; Map position: circular chromosome
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    C;Species: Agrobacterium tumefaciens
C;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004
C;Accession: F97445
                                                                                                                                                                                                                                A; Gene: XF0580
C; Superfamily:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: DNA
A; Residues: 1-217 <SIM>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R; anonymous, The Xylella fastidiosa Consortium of the Organization for Nucleotide Nature 406, 151-157, 2000
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A; Residues: 1-390 < KUR>
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A;Reference number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Science 294, 2323-2328, 2001
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Status: preliminary
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                                                                                                                                                                                                                                                                                                                             A;Contents: annotation
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Matches 6
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75.0%;
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probable ATP-binding protein - Pyrococcus horikoshii
C;Species: Pyrococcus horikoshii
C;Species: 14-Aug-1998 #sequence_revision 14-Aug-1998 #text_change 12-Jul-2004
C;Accession: D71036
C;Accession: D71036
R;Kawarabayasi, Y.; Sawada, M.; Horikawa, H.; Haikawa, Y.; Hino, Y.; Yamamoto, S.; Sekin
M.; Ohfuku, Y.; Funahashi, T.; Tanaka, T.; Kudoh, Y.; Yamazaki, J.; Kushida, N.; Oguchi
DNA Res. 5, 5-76, 1998
A;Title: Complete sequence and gene organization of the genome of a hyper-thermophilic a
A;Reference number: A71000; MUID:98344137; PMID:9679194
A;Accession: D71036
A;Status: preliminary; nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-242 <KAW>
A;Cross-references: UNIPROT:059268; GB:AP000006; NID:93236133; PIDN:BAA30692.1; PID:9325
A;Note: this accession replaces an interim accession for a sequence replaced by GenBank
C;Gene: PH1580
Search completed: May 3, 2005, 06:16:23 
Job time : 13.6892 secs
                                                                                                                                                                                                                                                                                                        Query Match 80.4%; Score 37; DB 2; Length 242; Best Local Similarity 55.6%; Pred. No. 24; Matches 5; Conservative 4; Mismatches 0; Indels
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Run

92.

May

Sequence: Perfect score:

46

Scoring table:

BLOSUM62

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OM protein - protein search, using
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seq length: 2000000000
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Match Length DB
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1: uniprot_sprot:*
2: uniprot_trembl:*
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148.023 Million cell updates/sec
 Match 100%
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Q6QEH0
Q6QEH0
Q63J94
Q9HU49
Q75SEP7
Q81VP5
Q6HM2
Q6HM2
Q6HH02
Q6HH02
Q6HH010
Q8HD10
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Q7M2R0
Q93IY1
Q82IG2
Q82IG2
Q6AVH8
Q83B30
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Q81vp5
Q6hpm2
Q63h54
Q73f59
Q81j10
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P21590
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Q6qeh0
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Q6g7e8
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RX MEDLINE-22388257; pubMed=12477932; DOI=10.1073/pnas.242603899;

RX MEDLINE-22388257; pubMed=12477932; DOI=10.1073/pnas.242603899;

RX Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RX Klausner R.D., Collins F.S., Wagner L., Schaefer C.F., Bhat N.K.,

RX Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RX Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RX Altschuko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RX Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RX Alpleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RX Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RX Raha S.S., Loquellano N.A., Peters G.J., Abrameon R.D., Mullahy S.J.,

RX Alchards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hullyk S.W.,

RX Allahards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hullyk S.W.,

RX Allahards S., Worley K.C., Hale S., Garcia A.M., Rodrigues S., Sanchez A.,

RX Allahards M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RX Allahards M., Touchman J.W., Green E.D., Dickson M.C.,

RX Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Schein J.E.,

RX Arnes S. T. Marra M.A.
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Q6PJK7;
05-JUL-2004
05-JUL-2004
05-JUL-2004
PTPRC protein
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Name=PTPRC;
Homo sapiens (Human).
Homo sapiens (Human).
'``rvota; Metazoa; Chordata; '
'``rvota; Metazoa; Primates;
                                                                                                                                                                                                                                                                                      Jones S.J., Marra M.A.;
"Generation and initial analysis of
"Generation EDNA sequences.";
proc. Natl. Acad. Sci. U.S.A. 99:168
                                                                                                                                                                                                    Strausberg R.;
Submitted (SEP-2001) to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=9606;
                                                                                                                                                                                                                                   TISSUE=Primary
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                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
 SM00060;
SM00194;
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4 (TrEMBLrel. 27,
4 (TrEMBLrel. 27,
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Q8XH13
Q8UH13
Q7D0V6
Q9C9Z9
Q6CD60
Q7SD13
XTHY_XXLFA
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Last sequence update)
Last annotation update)
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Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.

PRT;

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ALIGNMENTS

Q7acj7
Q837e8
Q83qy1
Q8uhh3
Q7d0v6
Q9c9z9
Q6ed60
Q7sd13
Q9pfs7
Q7qni8
Q7pv10
Q59290

6 agrobacteri 9 arabidopsis) aotus vocif

escherichia shigella fl agrobacteri

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B pyrococcus
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Clostridium

anopheles anopheles neurospora xylella fas

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Result No.

Score

99:16899-16903 (2002)

databases

more than 15,000

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Minimum Maximum

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Best Local S
Matches 9
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CD45 HUMAN STANDARD,
P08575; Q16614; Q9H0Y6;
01-AUG-1988 (Rel. 08, Created)
10-CCT-2003 (Rel. 42, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
1-2004 (Rel. 44, Last annotation update)
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PROSITE;
NON TER
SEQUENCE
                                                                                           EMBO
                                                                                                                            MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tan
"Distinct functional roles of the two
                                                                                                                                                                                          Charbonneau H., Tonks N.K., Walsh K.A., Fischer "The leukocyte common antigen (CD45): a putative protein tyrosine phosphatase.";
Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988)
                                                                                                                                                                                                                                                                                                                                                                                 antigen).";
RMBO J. 6:1251-1257(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       TISSUE-Lymphocytes;
MEDLINE=88061067; PubMed=2824653;
MEDLINE=88061067; PubMed=2824653;
Streuli M., Hall L.R., Saga Y., Schlossman S.F., Saito H.;
"Differential usage of three exons generates at least five mRNAs encoding human leukocyte common antigens.";
J. Exp. Med. 166:1548-1566(1987).
                                                                                                                   domains
                                                                                                                                                                                                                                FUNCTION.
MEDLINE=89017162; PubMed=2845400;
Charbonneau H., Tonks N.K., Walsh
                                                                                                                                                                                                                                                                                     "Complete exon-intron organization antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
    <u>:</u>-
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                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE OF 191-1304 FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=87275816; PubMed=2956090; Ralph S.J., Thomas M.L., Morton C.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                       MEDLINE=89009812; PubMed=2971730;
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                                                                                                                                                                                                                                                                                                                                                                                                                  "Structural variants of human
FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one. CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = protein tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH (By similarity).
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9; Conserv
                                                                                         9:2399-2407 (1990).
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PS50055; TYR_PHOSPHATASE_PTP; 1.
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Eutheria; Primates;
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                                                                                                                   receptor-linked
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         (ISOFORM 2),
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Catarrhini;
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Pred. No.
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wo intracellular p
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i; Hominidae;
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ne human leukocyte
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InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
InterPro; IPR000387; TTR phosphatase.
InterPro; IPR000242; Tyr_Pp.
Pfam; PP00102; Y phosphatase; 2.
Pfam; PP00102; Y phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                       EMBL; Y00638; CAA68669.1
EMBL; W23492; AAD15273.2
EMBL; W23496; AAD15273.2
EMBL; W23466; AAD15273.2
EMBL; W23467; AAD15273.2
EMBL; W23469; AAD15273.2
EMBL; W23469; AAD15273.2
EMBL; W23470; AAD15273.2
EMBL; W23471; AAD15273.2
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EMBL; W23476; AAD15273.2
EMBL; W23477; AAD15273.2
EMBL; W23478; AAD15273.2
EMBL; W23478; AAD15273.2
EMBL; W23478; AAD15273.2
EMBL; W23478; AAD15273.2
EMBL; W23480; AAD15273.2
EMBL; W23480; AAD15273.2
EMBL; W23481; AAD15273.2
EMBL; W23484; AAD15273.2
EMBL; W23484; AAD15273.2
EMBL; W23486; AAD15273.2
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EMBL; W23488; AAD15273.2
EMBL; W23489; AAD15273.2
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GO; GO:0005887; C:integral to plasma membrane; TAS:
GO; GO:0005001; F:transmembrane receptor protein ty
GO; GO:0007166; P:cell surface receptor linked sign
                                                                                                                                                                                                                    GlycoSuiteDB;
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                                                                                                                                                                                                     Genew; HGNC: 9666;
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HSSP; P18031; 1C88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PTM: Heavily N- and O-glycosylated.
SIMILARITY: Belongs to the protein-tyrosine phosphat
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains.
SIMILARITY: Contains 2 protein-tyrosine phosphatase
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
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ALTERNATIVE PRODUCTS:
Event-Alternative splicing; Named
Comment=At least 8 isoforms are
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              PS50853;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           email to license@isb-sib.ch).
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566; PTPRC.
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nd O-glycosylated.
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FN3; 2.
TYR_PHOSPHATASE_1;
TYR_PHOSPHATASE_2;

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.

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                       MEDIJINE=93279332; PubMed=8504822; Bezouska K., Krajhanzl A., Pospisil M., Kubrycht J., Stajner K., Felsberg J., Kocourek J.; Felsberg J., Kocourek J.; "Characterization of the high-affinity oligosaccharide-binding site of the 205-kDa porcine large granular lymphocyte lectin, a member of the the 205-kDa porcine large granular lymphocyte lectin, a member of the leukocyte common antigen family."; Eur. J. Biochem. 213:1303-1313(1993).

PIR; S32461; S32461.
                                                                                                                 Lectin, 205K, large granular lymphocyte.
Sus scrofa domestica (domestic pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae;
                                                                                                                                                 01-MAR-2004 (TrEMBLrel. 26, Created)
01-MAR-2004 (TrEMBLrel. 26, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
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01-MAR-2004
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Mammalia; Eutheria;
NCBI_TaxID=9825;
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C->S: Loss of activity.
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P -> L (in Ref. 1).
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Potential.
Score 42;
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Pred. No.
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                84DABA4FBA700194 CRC64;
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Matches 8; Conserv
                                                                         Query Match
Best Local
                                                             Matches
                                                                                                                                                Pfam; PF00989; PAS; 2.
Pfam; PF07228; SP0IIE; 1.
SMART; SM00065; GAF; 1.
SMART; SM00085; HATPASE c; 1.
SMART; SM00091; PAS; 2.
SMART; SM00091; PAS; 2.
SMART; SM00031; PP2C SIG; 1.
SMART; SM00331; PP2C SIG; 1.
TIGREAMS; TIGR00229; Sensory box; 1.
PROSITE; PS00211; LIPOCALIN; UNKNOWN 1.
PROSITE; PS50112; PAS; 1.
                                                                                                                                                                                                                                                                                                                    EMBL; AL939122; CAC44217.1; -.
GO; GO:0005524; F:ATP binding; IEA.
GO; GO:0003824; F:Catalytic activity; IEA.
GO; GO:0003824; F:catalytic activity; IEA.
GO; GO:0007165; P:signal transduction; IE
GO; GO:0007165; P:signal transduction; IE
InterPro; IPR003594; ATPbind_ATPase.
InterPro; IPR003018; GAF.
InterPro; IPR003018; GAF.
InterPro; IPR003014; PAS.
InterPro; IPR001092; PDC-like.
InterPro; IPR010922; SpoIIE.
Eng. EDC1080.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Hopwood D.A.;
Hopwood D.A.;
Complete genome sequence o coelicolor A3(2) ";
Nature 417:141-147(2002).
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Q93IY1; Cre
Q93IY1; Cre
Q1-DEC-2001 (TrEMBLrel. 19, Cre
Q1-DEC-2001 (TrEMBLrel. 26, Las
Q1-MAR-2004 (TrEMBLrel. 26, Las
Hypothetical protein SCO5104.
QRFNames=SCBAC28G1.30;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        STRAIN=A3(2) / M145;

MEDLINE=21964410; PubMed=12000953; DOI=10.1038/417141a;

Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,

Thomson N.R., James K.D., Harris D.B., Quail M.A., Kieser H.,

Thomson N.R., James K.D., Harris D.B., Quail M.A., Kieser H.,

Harper D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M.,

Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,

Huang C.-H., Kieser T., Larke L., Murphy L.D., Oliver S.,

Rabbinowitsch E., Rajadream M.A., Rutherford K.M., Rutter S.,

Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,

Marren T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Streptomyces coelicolor, Bacteria; Actinobacteridae; Actinomycetales;
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Pfam; PF02518; HATPase_c; 1.
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                                                         Similarity 7; Conserv
LMLDVPPGL:
                                LILDVPPGV
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                                                                                                                      Hypothetical protein. 94778 MW; 4EB9867390CB436E CRC64;
                                                                        87.0%;
77.8%;
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Pred. No. 1
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activity; IEA.
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RESULT Q821G2

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RESULT 6
Q6AVH8
ID Q6AV
AC Q6AV
DT 25-C
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GO; GO:0003824; F:Cattalytic activity; IEA
GO; GO:0004871; F:signal transducer activ
GO; GO:0007165; P:signal transduction; IE
InterPro; IPR003594; ATPbind_ATPase.
InterPro; IPR00318; GAF.
InterPro; IPR003245; Lipocalin.
InterPro; IPR001014; PAS.
InterPro; IPR001932; PD2C-like.
InterPro; IPR010822; SpoIIE.
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Pfam; PF002518; HATPase_c; 1.

Pfam; PF00298; PAS; 2.

Pfam; PF07228; SpOIIE; 1.

SMART; SM00065; GAF; 1.

SMART; SM000387; HATPase_c; 1.

SMART; SM00031; PAS; 2.

SMART; SM00031; PAS; 2.

TIGRPAMS; TIGR00229; Bensory_box; 2
                            25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                    Q6AVH8;
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Q821G2;
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OrderedLocusNames=SAV3185;
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Kikuchi H., Shiba T., Sakaki Y., Hattori M.;
"Genome sequence of an industrial microorganism Streptomyces
     Hypothetical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Nat. Biotechnol. 21:526-531(200
EMBL; AP005034; BAC70896.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MEDLINE=22608306; PubMed=12692562; Ikeda H., Ishikawa J., Hanamoto A.,
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Y., Hattori M.,
                                                                                                                                                                                                                                                                                                    LILDVPPGV 9
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980 AA; 104505 MW; 25587847A78345C3 CRC64;
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PS50112; PAS; 1.
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                         (TrEMBLrel.
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(TrEMBLrel.
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(TrEMBLrel. 28, Last sequence update)
(TrEMBLrel. 28, Last annotation update)
protein OSJNBa0079G12.6 (Hypothetical protein
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77.8%;
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Pred. No.
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RESULT 7

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Best Local :
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Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
Ehrhartoideae; Oryzeae; Oryza.
NCBI_TaxID=39947;
                                                                                                    Seshadri R., Paulsen I.T., Eisen J.A., Read T.D., Nelson K.B. Nelson W.C., Ward N.L., Tettelin H., Davidsen T.M., Beanan M. Deboy R.T., Daugherty S.C., Brinkac L.M., Madupu R., Doson F. Khouri H.M., Lee K.H., Carty H.A., Scanlan D., Heinzen R.A., Thompson H.A., Samuel J.E., Fraser C.M., Heidelberg J.F.;
                                                                                                                                                                                                                               SEQUENCE FROM N.A.
STRAIN=Nine Mile phase I / RSA 493;
MEDLINE=22608657; PubMed=12704232; DOI=10.1073/pnas.0931379100;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Buell C.R., Yuan Q., Ouyang S., Liu J., Gansbur
Overton II L.L., Tsitrin T., Kim M.M., Bera J.J.
Fadrosh D.W., Tallon L.J., Koo H., Zismann V.,
Vanaken S.S., Riedmuller S.B., Utterback T.T.,
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White O., Salzberg S.L., Fraser C.M.;
"Oryza sativa chromosome 3 BAC OSJNBa0079G12 genomic sequence.";
                                                                                                                                                                                                                                                                                                                                                                                               Bacteria; Proteobacteria; Gammaproteobacteria; Legionellales;
                                                                                                                                                                                                                                                                                                                                                                                                                        Coxiella burnetii
                                                                                                                                                                                                                                                                                                                                                                                                                                                      OrderedLocusNames=CBU1689;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         01-OCT-2003
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01-JUN-2003
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Name=OSJNBa0079G12.6; Synonyms=OSJNBa0027J18.25;
                                                                              "Complete genome sequence of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           103
     AE016965; AAO91184.1;
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                                                                                                                                                                                                                                                                                                                                                                       Coxiella.
                                SC1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        24730 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  to the EMBL/GenBank/DDBJ
                             U.S.A. 100:5455-5460(2003)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    24,
24,
25,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Last sequence update)
Last annotation updat
                                                                              the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Created)
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Pred. No. 61;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          CCFCFB7218499516 CRC64;
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                                                                            Q-fever pathogen,
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V., Hsiao J., Blunt
T., Feldblyum T.V.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      genomic sequence.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Length 231;
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                                                                                                                                                             Dodson R.J
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Q9KG72;
01-OCT-2000
                                                                                                                            01-JUN-2001 (TrEMBLrel. 17, Created)
01-JUN-2001 (TrEMBLrel. 17, Last sequence up
01-JUN-2003 (TrEMBLrel. 24, Last amnotation
ATP-binding protein Mrp-like protein.
OrderedLocusNames=SAV2165;
Stabbylococcus aureus (strain M150 / ATCC 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Pfam; PF01883; DUF59; 1.
ProDom; PD005595; DUF59; 1.
PROSITE; PS01215; MRP; 1.
ATP-binding; Complete proteome.
SEQUENCE 350 AA; 37949 MW;
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01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
ATP-binding Mrp protein (Mrp/Nbp35 family).
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InterPro; IPR000808; Mrp.
PROSITE; PS01215; MRP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and genomic sequence comparison with Bacillus subtilis."; Nucleic Acids Res. 28:4317-4331(2000).
EMBL; AP001507; BAB03959.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=20512582; PubMed=11058132; DOI=10.1093/nar/28.21.4317; Takami H., Nakasone K., Takaki Y., Maeno G., Sasaki R., Masui N., Fuji F., Hirama C., Nakamura Y., Ogasawara N., Kuhara S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Bacillus halodurans.
Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus.
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SEQUENCE FROM N.A.
                                                              NCBI_TaxID=158878;
                                                                                                      Bacteria; Firmicutes;
                                                                                                                                                                                                                                                                                                                                                       Q99SA0;
                                                                                                                                                                                                                                                                                                                                                                                     Q99SA0
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InterPro; IPR000808; Mrp.
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GO; GO:0005524; F:ATP binding;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STRAIN=C-125;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
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                                                                                                      (strain Mu50 / ATCC 700699)
Bacillales; Staphylococcus.
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Pred. No. 94;
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Pred. No. 82;
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Best Local S
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Lancet 359:1819-1827(2002).
LEMBL; AP004829; BAB95957.1; -..

©G; GO:00055786; C:signal recognition pa
R GO; GO:0005525; F:GTP binding; IEA.
R GO; GO:0003723; F:RNA binding; IEA.
R GO; GO:0006614; P:SRP-dependent cotrans
R GO; GO:0006614; P:SRP54.
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EMBL, AP003364; BAB58327.1; -.

PIR; A90012; A90012.

GO; GO:0005786; C:signal recognition particle of the composition particle of the compos
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Q7A0A1;
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InterPro; IPRO00897; SRP54.
ProDom; PD000819; SRP54; 1.
ATP-binding; Complete proteome.
354 AA; 38358 MW;
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                                                                                                                                                                    InterPro; IPR000897; SRP5
ProDom; PD000819; SRP54;
Complete proteome.
SEQUENCE 354 AA; 38358
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Yamamoto K., Hiramatsu K.;
"Genome and virulence determinants of high virulence community-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Bacteria; Firmicutes; Bacillales; NCBI_TaxID=196620;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE=22040717; PubMed=12044378; DOI=10.1016/S0140-6736(02)08713-5; Baba T., Takeuchi F., Kuroda M., Yuzawa H., Aoki K.-I., Oguchi A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Staphylococcus aureus
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220 LILDLPPG
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SEQUENCE FROM N.A.

MEDLINE-21311952; PubMed=11418146; DOI=10.1016/S0140-6736(00)04403-MEDLINE-21311952; PubMed=11418146; DOI=10.1016/S0140-6736(00)04403-MEDLINE-21311952; PubMed=11418146; DOI=10.1016/S0140-6736(00)04403-MEDLINE-1, Workers H., Wobayashi I., Yuzawa H., Kobayashi Y., Lian J.-Q., Ito T., Cui L., Oguchi A., Maruyama A., Murakami H., Hosoyama A., Mizutami-Ui Y., Takahashi N.K., Sawano T., Inoue R.-I., Kaito C., Sekimizu K., Hirakawa H., Kuhara S., Goto S., Yabuzaki J., Sekimizu K., Hirakawa H., Kuhara S., Goto S., Yabuzaki J., Kanehisa M., Yamashita A., Oshima K., Furuya K., Yoshino C., Shiba Hattori M., Ogasawara N., Hayashi H., Hiramatsu K., Hayashi H., Hiramatsu K., Hayashi H., Hiramatsu K., Maruya K., Yoshino C., Shiba Hattori M., Ogasawara N., Hayashi H., Hiramatsu K., Tanahulu K., Maruyama K., Yamashi K., Puruya K., Yoshino C., Shiba Hattori M., Ogasawara N., Hayashi H., Hiramatsu K., Maruyama K., Yamashi K., Puruya K., Yoshino C., Shiba Hattori M., Ogasawara N., Hayashi H., Hiramatsu K., Hayashi H., Hiramatsu K., Hayashi H., Hiramatsu K., Maruyama K., Yamashi K., Puruya K., Yoshino C., Shiba Hattori M., Ogasawara N., Hayashi H., Hiramatsu K., Hayashi H., Hiramatsu K., Hayashi H., Hiramatsu K., Maruyama K., Yamashi K., Puruya K., Yoshino C., Shiba Hattori M., Ogasawara N., Hayashi H., Hiramatsu K., Hayashi H., Hayashi H., Hiramatsu K., Hayashi H., 
                                                                                                                                                        PubMed=15213324; DOI=10.1073/pnas.0402521101;
Holden M.T.G., Feil E.J., Lindsay J.A., Peacock S.J., Day N.P.J.,
Enright M.C., Foster T.J., Moore C.E., Hurst L., Atkin R., Barron A.
Bason N., Bentley S.D., Chillingworth C., Chillingworth T.,
Churcher C., Clark L., Corton C., Cronin A., Doggett J., Dowd L.,
Feltwell T., Hance Z., Harris B., Hauser H., Holroyd S., Jagels K.,
James K.D., Lennard N., Line A., Mayes R., Moule S., Mungall K.,
Ormond D., Quail M.A., Rabbinowitsch E., Rutherford K.M., Sanders M.
Sharp S., Simmonds M., Stevens K., Whitehead S., Barrell B.G.,
Spratt B.G., Parkhill J.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           "Complete genomes of two clinical Staphylococcus aureus evidence for the rapid evolution of virulence and drug proc. Natl. Acad. Sci. U.S.A. 101:9786-9791(2004).

EMBL: BX571857; CAG43875.1;
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Bacteria; Firmicutes; Bacillales; Staphylococcus.
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GO:0005786; C:signal recognition
GO:0005525; F:GTP binding; IEA.
GO:0003723; F:RNA binding; IEA.
GO:0006614; P:SRP-dependent cotra
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                                                                                                     resistance.
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RESULT
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Q6GER2
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                                                    Q6ED62;
Q6ED62;
25-OCT-2004
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05-JUL-2004
05-JUL-2004
05-JUL-2004
CD45.
Aotus nigriceps (Black-headed owl monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
                                                                                                                                                                                                                                                                                                         "Complete genomes of two clinical Staphylococcus aureus evidence for the rapid evolution of virulence and drug reco. Natl. Acad. Sci. U.S.A. 101:9786-9791(2004).

EMBL; BX571856; C.6461235.1; -.

GO; GO:0005786; C:signal recognition particle (sensu Euk GO; GO:0005725; F:GTP binding; IEA.

GO; GO:0003723; F:RNA binding; IEA.

GO; GO:0003723; F:RNA binding; IEA.

GO; GO:0003723; F:SRP-dependent cotranslational protein-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GO; GO:0005525; F:GTP binding; IEA.
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0006614; P:SRP-dependent cotranslational |
InterPro; IPR000897; SRP54.
ProDom; PD000819; SRP54; 1.
Complete proteome; Hypothetical protein.
SEQUENCE 354 AA; 38358 MW; 730E4D806920A691
                                                                                                                                                                                                                                                                                                                                                                                                                        PubMed=15213324; DOI=10.1073/pnas.0402521101;
Holden M.T.G., Feeil B.J., Lindsay J.A., Peacock S.J., Day N.P.J. Enright M.C., Foster T.J., Moore C.E., Hurst L., Atkin R., Barrol Bason N., Bentley S.D., Chillingworth C., Chillingworth T., Churcher C., Clark L., Corton C., Cronin A., Doggett J., Dowd L. Feltwell T., Hance Z., Harris B., Hauser H., Holroyd S., Jagels James K.D., Lennard N., Line A., Mayes R., Moule S., Mungall K., Ormond D., Quail M.A., Rabbinowitsch E., Rutherford K.M., Sanderi Sharp S., Simmonds M., Stevens K., Whitehead S., Barrell B.G., Parkhill J.;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Bacteria; Firmicutes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Staphylococcus aureus
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OrderedLocusNames=SAR2256;
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                                                                                                                                                                                                                                                                                   Complete proteome
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ProDom; PD000819; SRP54; 1.
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Matches 8
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R EMBL; AY445816; AAS06901.1; -.

RGO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

RGO; GO:000470; P:protein amino acid dephosphorylation; IEA.

RR InterPro; IPR003951; FN III.

RR InterPro; IPR003957; FN III-ike.

RR InterPro; IPR00387; TYR phosphatase.

InterPro; IPR000387; TYR phosphatase.

InterPro; IPR0000387; TYR phosphatase.

IN FAMT; SM00000; FN3; 2.

IN SMART; SM00000; FN3; 2.

IN SMART; SM00404; PTPC; motif; 2.

IN PROSITE; PS00853; TYR PHOSPHATASE 1; 2.

IN PROSITE; PS00855; TYR PHOSPHATASE 2; 2.

RR PROSITE; PS0055; TYR PHOSPHATASE PTP; 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      28-FEB-2003 (Rel. 41, Created)
28-FEB-2003 (Rel. 41, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
DNA-directed RNA polymerase subunit K (EC 2.7.7.6).
Name=rpoK; OrderedLocusNames=PF1642;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   PYRFU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Hydrolase.
SEQUENCE
                                                                                                                                                                                                                    STRAIN=VC1 / DSM 3638 / ATCC 43587 / JCM 8422;
Weiss R.B., Dunn D.M., Robb F.T., Brown J.R.;
Write complete sequence of the Pyrococcus furiosus genome.";
Submitted (FEB-2002) to the EMBL/GenBank/DDBJ databases.
-!- FUNCTION: DNA-dependent RNA polymerase catalyzes the transcription of DNA into RNA using the four ribonucleoside triphosphates as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q8U0E8;
28-FEB-2003
                                                                                                                                                                                  substrates.
-!- CATALYTIC ACTIVITY: N nucleoside triphosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Comparative analysis vs. human.";
                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=2261;
                                                                                                                                                                                                                                                                                                                                                                                                     Archaea; Euryarchaeota; Thermococci; Thermococcales; Thermococcaceae;
                                                                                                                                                                                                                                                                                                                                                                                                                         Pyrococcus furiosus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RPOK_PYRFU
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Montoya G.E., Vernot J.P.,
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                                                                                                                                      SIMILARITY: Belongs to the archaeal rpoK \!\!/ eukaryotic RPB6 RNA polymerase subunit family.
                                                                                                                                                                            RNA (N)
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Pred. No. 3.8e+02;
0; Mismatches 1;
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Matches 5
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InterPro; IPR006111; RNA polk 14kDa.

InterPro; IPR006110; RNA poly Rpb6.

InterPro; IPR009026; RNApol RPB5_like.
                                                                              Transferase SEQUENCE :
                                                                                                             Pfam; PF01192; RNA_pol_Rpb6;
PROSITE; PS01111; RNA_POL_K_
                                                                                                                                                                        EMBL; AE010263; AAL81766.1; HSSP; P20435; 1150.
                                                                                                 Complete proteome; DNA-directed RNA polymerase; Transcription;
26 VLIDVPPGI
                   1 LILDVPPGV
                                       Similarity 5; Conserv
                                                                              57 AA;
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34
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                                                                                6236 MW;
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Search completed: May 3, 2005, 06:00:18 Job time: 58.1351 secs

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GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
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ALIGNMENTS

human receptor type c; T200 glycoprote receptor type c; T200 glycoprote lice form; leukocyte common antigen text_change 09-Jul-2004 157658 ; Saito, H. at least five different mRNAs enco 653 60 60 60 60 60 60 60 60 60 6	chang 658 aito, least least 1east 1east 1east	RESULT 1 A46546 leukocvte common antigen long splice form precursor - human
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Oguc K.;

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lectin, 205K, large granular lymphocyte - pig (;Species: Sus scrofa domestica (domestic pig) (;Species: Sus scrofa domestica (domestic pig) (C;Date: 19-Mar-1997 #sequence_revision 19-Mar-1997 #text_change 09-Jul-2004 C;Accession: $32461 R;Bezouska, K; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, M.; Kubrycht, J.; Stajner, K.; Fel R;Bezouska, K.; Krajhanzl, A.; Pospisil, A.; Pospisil, M.; Kubrycht, A.; Pospisil, M.; Kubrycht, A.; Pospisil, M.; Kubrycht, A.; Pospisil, M.; Pospisil, A.; Pospisil, A.
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S32461
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C;Superfamily: leukocyte common antigen;
C;Keywords: alternative splicing; glycopr
F;594-1235/Domain: leukocyte common antig
F;675-899/Domain: protein-tyrosine-phosph
F;851/Active site: Cys (phosphocysteine i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Eur. J. Biochem. 213, 1303-1313, 1993

A; Title: Characterization of the high-affinity oligosaccharide-binding site of A; Reference number: S32461; MUID:93279332; PMID:8504822
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C;Genetics:
A;Gene: GDB:PTPRC; CD45
A;Cross-references: GDB:119768; OMIM:151460
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ATP-binding Mrp protein (Mrp/Nbp35 family) BH0240 [imported] - Bacillus halodurans C;Species: Bacillus halodurans
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A;Status: prelimina
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       A; Title: Complete genome sequence of
                                                                                                                                                                                                                                                                ;Cross-references: UNIPROT:Q9KG72; GB:AP001507; GB:BA000004; NID:g10172612; PIDN:BAB03:
Experimental source: strain C-125
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Species: Bactillus naloqurans
;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004
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87.5%;
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                      R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks erage, G.; Gillet, W.; Grant, C.; Guenthner, Karp, P.; Romero, P.; Zhang, S.
                                                                                                transcription regulator, GntR family Atu2606 [imported] - C;Species: Agrobacterium tumefaciens C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_C;Accession: AE2896
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C;Superfamily: conserved |
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A; Residues: 1-242 < KAW>
A; Cross-references: UNIPROT: Q9V147;
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C;Date: 20-Aug-1999 #sequence_revision 20-Aug-1999
C;Accession: A75178
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A;Title: Whole genome sequencing of meticillin-resistant Stapylococcus A;Reference number: A89758; MUID:21311952; PMID:11418146
A;Accession: A90012
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C; Superfamily:
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A;Cross-references: UNIPROT:Q99SA0;
A;Experimental source: strain N315
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  Zhang,
2001
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                                                                                                                                                                                                                                                                                                                        135
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87.5%;
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 38;
Pred. No.
                                                                             R.; Monks, D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          GB:AJ248284; GB:AL096836; NID:g5457730; PIDN:CAB4950
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                                                       Chen, L.; Wood, G.E.; Chen,
Kutyavin, T.; Levy, R.; Li,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     insights
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A;Gene:
A;Map po
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R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, P.; Hickey, adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, A.; Larbig, Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
                   A C
                                                     A;Cross-references: UNIPROT:Q9HU49;
A;Experimental source: strain PAO1
                                                                       A; Molecule type: DNA
A; Residues: 1-257 <STO>
A; Cross-references: UNI
                                                                                                                                                A;Title: Complete genome sequence of Pseudomonas aeruginosa PA01, an opportunistic pathoral A;Reference number: A82950; MUID:20437337; PMID:10984043
A;Accession: C83005
                                                                                                                                                                                                                                                                                                 conserved hypothetical protein PAS135 [imported] - C;Species: Pseudomonas aeruginosa C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Title: Genome Sequence of the Plant Pathogen and Biotechnology Agent Agrobacterium A;Reference number: A97359; MUID:21608551; PMID:11743194
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Goodner, B.; Hinkle, G.; Gattung, A.; Liu, F.; Wollam, C.; Allinger, Science 294, 2323-2328, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          probable transcription regulator (PA3757) [imported] - Agrobacterium tumefaciens
C;Species: Agrobacterium tumefaciens
C;Date: 30-Sep-2001 #sequence_revision 30-Sep-2001 #text_change 09-Jul-2004
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A;Title: The Genome of the Natural Genetic Engineer Agrobacterium tumefaciens C58.
A;Reference number: AB2577; MUID:21608550; PMID:11743193
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Best Local Similarity
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Best Local :
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77.8%;
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Pred. No.
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                                                                       GB:AE004926; GB:AE004091; NID:g9951424; PIDN:AAG085
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Miller, N.; Blanchard, M.; Qurollo, B.; Goldman, Doughty, D.; Scott, C.; Lappas, C.; Markelz, B.;
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22;
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                                                                                                                                                                                                                                                                                                                                        Pseudomonas aeruginosa (strain
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1;
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K.; Lim,
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C;Accession: A83590
R;Stover, C.K.; Pham, X.Q.; Erwin, A.L.; Mizoguchi, S.D.; Warrener, adman, S.; Yuan, Y.; Brody, L.L.; Coulter, S.N.; Folger, K.R.; Kas, .; Lory, S.; Olson, M.V.
Nature 406, 959-964, 2000
                                                                                                                                                                               A; Experimental source: C; Genetics:
                                                                                                                                                                                                                                                                                                    R;Schulte, U.; Aign, V.; submitted to the Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-264 <STO>
                                                                                                                                                                                                               A; Cross-references: EMBL: AL391572;
                                                                                                                                                                                                                            A; Molecule type: DNA
A; Residues: 1-331 <SCH>
                                                                                                                                                                                                                                                                                                                                                                               related to nucleotide-binding protein N;Alternate names: protein B23I11.60
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C;Date: 15-Sep-2000 #sequence_revision 15-Sep-2000
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C;Species: Pseudomonas aeruginosa
                                                                                                                                      A; Introns:
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                                                                                                                                                                 A; Gene: NCSP: B23I11.60
                                                                                                                                                                                                                                                          A;Status: preliminary
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                                                                                                                                                                                                                                                                                         A; Reference number: Z25858
                                                                                                                                                                                                                                                                                                                                    C; Accession: T51894
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                                                                         Query Match
Best Local :
                                                                                                                      Superfamily:
                                                                                                                                                                                                                                                                                                                                                                    Species: Neurospora crassa
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185 LVLDLPPG
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A82950; MUID:20437337; PMID:10984043
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B23I11; strain OR74A
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                                                                         Pred.
                                                                                                                                                                                                                                                                                                     J.; Brandt, P.;
Database, August
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                                                                         No.
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                                                                                       Length 331;
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K.; Lim
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RESULT 13
G90993
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R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; B.A.; Rose, D.J.; Mau, B.; Shao, Y. Science 277, 1453-1462, 1997
A;Title: The complete genome sequence of Escherichia coli K-12.
A;Reference number: A64720; MUID:97426617; PMID:9278503
A;Accession: H64978
                                                                                                                                                                                                                                                                   C;Superfamily: conserved probable membrane protein YIL003w C;Keywords: nucleotide binding; P-loop F;125-132/Region: nucleotide-binding motif A (P-loop)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         , S.; Moule, S.; O'Gaora, P.
Nature 413, 848-852, 2001
A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.;
A;Title: Complete genome sequence of a multiple drug resistant Salmonella enterica serov
A;Reference number: AB0502; MUID:21534947; PMID:11677608
A;Accession: AG0776
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  probable ATPase
                                                                                                                                            δ
                                                                                                                                                                                                                                                                                                                                                                A;Molecule type: DNA
A;Residues: 11-379 <DAR>
A;Cross-references: EMBL:X55791; NID:g42015; PIDN:CAA39316.1;
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C;Species: Esche
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A;Experimental source: strain K-12, substrain MG1655
R;Dardel, F; Panvert, M; Fayat, G
Mol. Gen. Genet. 223, 121-133, 1990
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C; Superfamily:
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C;Genetics:
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A; Residues: 1-369 < Pi
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R;Parkhill, J.; Dougan, G.; James,
                                                                                                                                                                                       Query Match
Best Local S
Matches 6
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Species: Escherichia coli
;Date: 12-Sep-1997 #sequence_revision 17-Sep-1997 #text_change 09-Jul-2004
;Accession: H64978; S11948
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Title: Transcription and regulation of expression of the Escherichia coli methionyl-transcription and regulation of expression of the Escherichia coli methionyl-transcription and regulation of the Escherichia coli methionyl-transcription and regulation of expression of the Escherichia
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Residues: 1-379 <BLAT>
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Best Local !
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                                                                                                                                                                                       Similarity 6; Conserv
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                                                                                                       236
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75.0%;
Escherichia coli (strain O157:H7, substrain RIMD 0509952)
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C; Superfamily:
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                                                                                  A; Authors: Yoo, H.; Tao, ster, E.W.
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A; Residues: 1-379 < STO>
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C;Superfamily:
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A; Residues: 1-379 <HAY>
                     A;Reference number: A;Accession: AG2663
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75.0%;
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75.0%;
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C;Species: Escherichia coli
C;Date: 18-Uul-2001 #sequence_revision 18-Jul-2001 #text_change 09-Jul-2004
C;Accession: G90993
R;Hayashi, T.; Makino, K.; Ohnishi, M.; Kurokawa, K.; Ishii, K.; Yokoyama, K.; Fgasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Hattori, M.; Shinagawa, H. DNA Res. 8, 11-22, 2001
BNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7
A;Reference number: A99629; MUID:21156231; PMID:11258796
A;Accession: G90993
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C;Accession: B85839

R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasner, J.D.; Rose, iller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, E.; Potamousis, Nature 409, 529-533, 2001
                                                                                                                R;Wood, D.W.; Setubal, J.C.; Kaul, R.; Monks, D.; Chen, L.; Wood, G.E.; Chen, Y.; Woo, Lerage, G.; Gillet, W.; Grant, C.; Guenthner, D.; Kutyavin, T.; Levy, R.; Li, M.; McClell; Karp, P.; Romero, P.; Zhang, S.
Science 294, 2317-2323, 2001
                                                                                                                                                                                                                                                                   mrp protein [imported] - Agrobacterium tumefaciens (strain C58, Dupont)
C;Species: Agrobacterium tumefaciens
C;Date: 11-Jan-2002 #sequence_revision 11-Jan-2002 #text_change 09-Jul-2004
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C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09.
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                         A; Title: The Genome of the Natural Genetic Engineer Agrobacterium
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AB2577; MUID:21608550; PMID:11743193
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Pred. No.
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                                                                                      Jung, M.;
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                                                                                         Perry, M.; Gordon-Kamm,
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A; Molacule type: DNA
A; Eccase-references: MNIPROT:08UHH3; GB:AED08688; PIDN:AMALA1725.1; PID:g17739074; G8PDB:G
A; Genetical DD9
C; Genetical DD9
C; Superfamily: conserved probable membrane protein YILOO3w
Query Match 74.5%; Score 38; DB 2; Length 388;
Best Local Similarity 75.0%; Perd No. 25;
Marches 6; Conservative 2; Mismatches 0; Indels 0; Gaps 0;
QY 1:|| 1|| 1|| 9
Db 240 LVLMPPG 247
Search completed: May 3, 2005, 06:16:26
Sob time: 10.4324 secs
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Post-processing: Minimum Match 0%
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Listing first 45 summaries
                                             Database :
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Gapop 10.0 , Gapext 0.5
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UniProt_03:*
1: uniprot_sprot:*
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1 TLILDVPPGV 10
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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ALIGNMENTS

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O:000472 O:0006470 O:0006470 Pro; IPRO Pro; IPRO Pro; IPRO PF000102 PF00102 S; PR0070 S; SM00060 ; SM00060	s."; J.S.A. 99:16899-16903(2002). the EMBL/GenBank/DDBJ databases.	Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J., Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H., Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Fahey J., Helton E., Ketteman M., Madan A., Rodrigues S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E., Jones S.J., Marra M.A.; "Generation and initial analysis of more than 15,000 full-length human	10.1073/pnas.2426 L.H., Derge J.G., Shenmen C.M., Sc Schaefer C.F., B S.I., Wang J., Hs , Rubin G.M., Hon , Casavant T.L.,	ILT 1 Q6PUK7 PRELIMINARY; PRT; 756 AA. Q6PUK7; Q6PUK7; Q6PUK7; O5-JUL-2004 (TrEMBLrel. 27, Created) O5-JUL-2004 (TrEMBLrel. 27, Last sequence update) O5-JUL-2004 (TrEMBLrel. 27, Last annotation update) PTPRC protein (Fragment). Name=PTPRC; Homo sapiens (Human). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo. NCHI TaxIT9-9606;

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                                                                                                                                                                                                                                                                                                                                                                                                                                                             TISSUE=Lymphocytes;

MEDLINE=88061067; PubMed=2824653;

MEDLINE=88061067; PubMed=2824653;

Streuli M., Hall L.R., Saga Y., Schlossman S.F., Streuli M., Exp. Med. 166:1548-1566(1987).
                                                                                                                                                                                                                                                                        Hall L.R., Streuli M., Schlossman S "Complete exon-intron organization antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    01-AUG-1988 (Rel. 08, Created)
10-OCT-2003 (Rel. 42, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation updat
                                                                                      EMBO
                                                                                                              domains
                                                                                                                         MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tan
"Distinct functional roles of the two
                                                                                                                                                                                      protein tyrosine phosphatase."; Proc. Natl. Acad. Sci. U.S.A. 8
                                                                                                                                                                                                            MEDLINE=89017162; PubMed=28454
Charbonneau H., Tonks N.K., Wa
"The leukocyte common antigen
                                                                                                                                                                                                                                                                                                                                                     SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                   "Structural variants of human
                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A. MEDLINE=87275816; I
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Leukocyte common antigen precursor (EC 3.1.3.48) (L-CA) (CD45 antigen)
  <u>-</u>
                                                                                                                                                                                                                                                                                                                           MEDLINE=89009812;
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 tyrosine SUBUNIT:
                                               FUNCTION: Required for T-cell activation receptor. The first PTPase domain has end the second one seems to affect the substi
                       first one.

CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)0 =
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 + phosphate
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                                                                                                           ueger N.X., Thai T., Tang M., Saito H.; tional roles of the two intracellular phosphatase receptor-linked protein tyrosine phosphatases LCP
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6; PubMed=2956090;
- M.L., Morton C.C., Trowbridgum M.L., Morton C.C., Trowbridgum ()
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i M., Schlossman
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TYR PHOSPHATASE_PTP; 1.
756
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onks N.K., Walsh
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(CD45): a
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EMBL; Y00638; CAA68669.1
EMBL; Y000638; CAA68669.1
EMBL; M23492; AAD15273.2
EMBL; M23496; AAD15273.2
EMBL; M23466; AAD15273.2
EMBL; M23467; AAD15273.2
EMBL; M23468; AAD15273.2
EMBL; M23470; AAD15273.2
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EMBL; M23473; AAD15273.2
EMBL; M23474; AAD15273.2
EMBL; M23475; AAD15273.2
EMBL; M23476; AAD15273.2
EMBL; M23480; AAD15273.2
               Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 2
PRINTS; PR0700; PRTYPHPITASE.
PROSITE; PS50853; FN3; 2.
PROSITE; PS00383; TYR PHOSPHATA:
PROSITE; PS50056; TYR_PHOSPHATA:
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                                                                                                                                                 GO; GO:0005001; F:transmembrane receptor protein tyros GO; GO:0007166; P:cell surface receptor linked signal InterPro; IPR003961; FN_III.
InterPro; IPR0003957; FN_III-like.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
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SIMILARITY: Belongs to the protein-tyrosine phosph.
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domain.
SIMILARITY: Contains 2 protein-tyrosine phosphatas.
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WMWH="http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm"
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Event-Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SWISS-PROT entry is copyright. It is produced through een the Swiss Institute of Bioinformatics and the EN
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PS00383; FN3; 2.
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PS50056; TYR PHOSPHATASE 2;
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                                                                                                                                                                                                          Lectin, 205K, large granular lymphocyte.

Sus scrofa domestica (domestic pig).

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;

Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae;

NCBI TaxID=9825;
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CONFLICT
CONFLICT
SEQUENCE
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DOMAIN
DOMAIN
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                                                             MBDLINE=93279332; PubMed=8504822;
Bezouska K., Krajhanzl A., Pospisil M., Kubrycht J., Stajner K.,
Felsberg J., Kocourek J.;
"Characterization of the high-affinity oligosaccharide-binding site of
the 205-kDa porcine large granular lymphocyte lectin, a member of the
leukocyte common antigen family.";
Leukocyte common antigen family.";
Bur. J. Biochem. 213:1303-1313(1993).
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Alternative splicing; Antigen; Glycoprotein; l
Phosphorylation; Protein phosphatase; Repeat;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Transmembrane.
SIGNAL
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S32461;
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650
1207
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 92.2%;
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C-S: LOSE of activity.
L -> P (In Ref. 1).
P -> L (in Ref. 1).
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Fibronectin type-III 2.
Fibronectin type-III 2.
Protein-tyrosine phosphatase 1
Protein-tyrosine phosphatase 2
Phosphocysteine intermediate.
Phosphocysteine intermediate ()
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N-linked
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N-linked
N-linked
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Cytoplasmic
 Score 47;
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Extracellular
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Length 137;
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Matches
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Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00404; PTPC; 2.

SMART; SM00404; PTPC; 2.

SMART; PS50085; FN3; 2.

PROSITE; PS50085; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50036; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_PTP; 2.

SEQUENCE 1303 AA; 146586 MW; 9BB023EBI
                                                                                                                                                       Q6ED60;
Q6ED60;
25-OCT-2004
25-OCT-2004
25-OCT-2004
CD45:
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GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

GO; GO:0006470; F:protein amino acid dephosphorylation; IEA.

InterPro; IPR003961; FN III.

InterPro; IPR008957; FN III-like.

InterPro; IPR008595; FTPC motif.

InterPro; IPR0003897; TYR phosphatase.

InterPro; IPR0003897; TYR phosphatase.

InterPro; IPR0003897; TYR phosphatase.
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Q6ED62;
25-OCT-2004
25-OCT-2004
                                                                     Aotus vociferans (Spix's Eukaryota; Metazoa; Chord Mammalia; Eutheria; Prima NCBI TaxID=57176;
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Mammalia; Eutheria;
NCBI_TaxID=57175;
                    SEQUENCE FROM N.A.
PubMed=15245371;
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Montoya G.E.,
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47 TLILDVPPG
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ive analysis of CD45 protein in primate
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(TrEMBLrel.
(TrEMBLrel.
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  Vernot
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Primates;
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Primates;
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  Patarroyo M.E.;
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Last annotation update)
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ni; Cebidae;
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Aotinae; Aotus.
                                                                                                  Aotinae;
                                                                                                                  Euteleostomi;
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InterPro; IPR008957; FN_III-like.
InterPro; IPR003995; PTTC motif.
InterPro; IPR003395; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
InterPro; IPR000242; Tyr_PP.
Pfam; PF000041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00094; PTPC; 2.
 Q93IY1;
01-DEC-2001
01-DEC-2001
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SMART; SM00404; PTPC mc1f; 2.
PROSITE; PS5085; PTN3; 2.
PROSITE; PS00383; TYR PHOSPHATASE 1; 2.
PROSITE; PS00386; TYR PHOSPHATASE 2; 2.
                                                                                                                                                                                                                                                                                                          Filip L.C., Mundy N.I.;
Filip L.C., Mundy N.I.;
"Rapid Evolution by Positive Darwinian Selection in the Extra-
Domain of the Abundant Lymphocyte Protein CD45 in Primates.";
Mol Biol. Evol. 21:1504-1511(2004).
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                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
PubMed=15014144; DOI=10.1093/molbev/msh111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                Q93IY1
                                                                                                                                                                                                                                                              SEQUENCE
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Primates;
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Pred. No.
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Hypothetical protein SCC
ORFNames=SCBAC28G1.30;
 SEQUENCE FROM N.A.
STRAIN=MA-4680;
                                             NCBI_TaxID=33903;
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RMEL; AL939122; CAC44217.1; -.

RMEL; AL939122; CAC44217.1; -.

GO; GO:00005524; F:CATP binding; IEA.

GO; GO:00003824; F:catalytic activity; IEA.

GO; GO:0004871; F:signal transducer activity;

GO; GO:0004871; F:signal transduction; IEA.

InterPro; IPR003594; ATPbind_ATPase.

InterPro; IPR003018; GAF.

InterPro; IPR001031; PP2C-like.

InterPro; IPR001032; PP2C-like.

InterPro; IPR010822; SpoilE.

Pfam; PP01590; GAF; 1.

Pfam; PP02518; HATPase_C; 1.

Pfam; PP02518; HATPase_C; 1.

Pfam; PP00989; PAS; 2.

Pfam; PP00989; PAS; 2.

Pfam; PM00085; GAF; 1.

SMART; SM00087; HATPase_C; 1.

PFam; PP00989; PAS; 2.

PFAM; PR01085; GAF; 1.

SMART; SM00031; PAS; 2.

PROSITE; PS0011; INTOCALIN; UNKNOWN 1.

PROSITE; PS0011; PAS; 1.
                                                                                                                          082IG2 PRELIMINARY;
082IG2;
01-JUN-2003 (TrEMBLrel. 2
01-JUN-2003 (TrEMBLrel. 2
01-MAR-2004 (TrEMBLrel. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MEDIJINE-196410; PubMed=12000953; DOI=10.1038/417141a; MEDIJINE-2196410; PubMed=12000953; DOI=10.1038/417141a; Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L., Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H., Collins M., Erser D., Bateman A., Brown S., Chandra G., Chen C.W., Collins M., Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S., Huang C.-H., Kieser T., Larke L., Murphy L.D., Oliver K., O'Neil S., Rabbinowitsch E., Rajandream M.A., Rutherford K.M., Rutter S., Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K., Warren T., Wietzorrek A., Woodward J.R., Barrell B.G., Parkhill J.,
                          Streptomyces avermitilis.
Bacteria; Actinobacteridae; Actinomycetales;
                                                                              Hypothetical protein.
OrderedLocusNames=SAV3185;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Complete genome sequence of the model actinomycete Streptomyces coelicolor A3(2).";
Nature 417:141-147(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Complete proteome; Hypothetical protein.
SEQUENCE 880 AA; 94778 MW; 4EB9867390CB436E CRC64;
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InterPro; IPR003018; GAF.
InterPro; IPR002345; Lipocalin.
InterPro; IPR000214; PAS.
InterPro; IPR000014; PAS.
InterPro; IPR000014; PAS.
InterPro; IPR01082; SpOIIE.
Pfam; PP01590; GAF; 1.
Pfam; PP02518; HATPase_C; 1.
Pfam; PP07228; SpOIIE; 1.
SMART; SM00305; GAF; 1.
SMART; SM00305; PAS; 2.
SMART; SM00307; PAS; 3.
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Q6QIM9;
05-JUL-2004
05-JUL-2004
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PubMed=15014144; DOI=10.1093/molbev/msh111;
F11ip L.C., Mundy N.I.;
"Rapid Evolution by Positive Darwinian Selec
Domain of the Abundant Lymphocyte Protein CI
Mol. Biol. Evol. 21:1504-1511(2004).
EMBL; AY533693; AAS46948.1; -.
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Nat. Biotechnol. 21:526-531(2003).
EMBL; AP005034; BAC70896.1; -.
                                                                                             SEQUENCE FROM N.A.
                                                                                                                     NCBI_TaxID=9593;
                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                               Gorilla gorilla (gorilla)
                                                                                                                                                                              Name=PTPRC;
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Sakaki Y., Hattori M., Omura S.;
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MEDLINE=22608306; PubMed=12692562;
MEDLINE=22608306; PubMed=12692562;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GO:0005524; F:ATP binding; IEA.
GO:0003824; F:catalytic activity; IEA.
GO:0004871; F:signal transducer activity;
GO:00047165; P:signal transduction; IEA.
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Pred. No. 2e+02;
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Catarrhini; Hominidae;
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                                Submitted [2]
                                                                              SEQUENCE FROM N.A.
Buell C.R., Yuan Q., Ouyang S., Liu J., Gansberger K., Jones K.M
Overton II L.L., Tsitrin T., Kim M.M., Bera J.J., Jin S.S.,
Fadrosh D.W., Tallon L.J., Koo H., Zismann V., Hsiao J., Blunt S
Vanaken S.S., Riedmuller S.B., Utterback T.T., Feldblyum T.V.,
Yang Q.Q., Haas B.J., Suh B.B., Peterson J.J., Quackenbush J.,
White O., Salzberg S.L., Fraser C.M.;
"Cryza sativa chromosome 3 BAC OSUMBA0079G12 genomic sequence.";
                                                                                                                                                                                                                                                                                                                                                               Oryza sativa (japonica cultivar group).
Eukaryota; Viridiplantae; Streptophyta;
Spermatophyta; Magnoliophyta; Liliopsida
Ehrhartoideae; Oryzeae; Oryza.
NCBI_TaxID=39947;
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25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein OSJNBa0079G12.6 (Hypothetical oSJNBa0027J18.25).
Name=OSJNBa0079G12.6; Synonyms=OSJNBa0027J18.25;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBL;
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PubMed=15014144; DOI=10.1093/molbev/mshl11;

Filip L.C., Mundy N.I.;

"Rapid Evolution by Positive Darwinian Selection in the Ext
Domain of the Abundant Lymphocyte Protein CD45 in Primates
Mol. Biol. Evol. 21:1504-151(2004).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NON_TER
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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EMBL; AY539692; AAS46947.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
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CD45 (Fragment).
   SEQUENCE FROM N.A.
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                                                             (NOV-2001)
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27,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Pred. No. 18;
1; Mismatches
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L; Mismatches
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Liliopsida; Poales; Poaceae;
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RESULT 13
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01-JUN-2003
01-JUN-2003
01-OCT-2003
                                                                                                                                                 Complete
SEQUENCE
                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.

STRAIN-Nine Mile phase I / RSA 493;

STRAIN-Nine Mile phase I / RSA 493;

MEDLINE-22608657; PubMed=12704232; DOI=10.1073/pnas.0931379100;

Seshadri R., Paulsen I.T., Eisen J.A., Read T.D., Nelson K.E.,

Seshadri R., Paulsen I.T., Eisen J.A., Read T.D., Nelson R.J.,

DeBoy R.T., Daugherty S.C., Brinkac L.M., Madupu R., Dodson R.J.,

Khouri H.M., Lee K.H., Carty H.A., Scanlan D., Heinzen R.A.,

Thompson H.A., Samuel J.E., Fraser C.M., Heidelberg J.F.;

"Complete genome sequence of the Q-fever pathogen, Coxiella
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Buell C.R., Yuan Q., Ouyang S., Liu J., Gansberger K., Jones K.M., Overton II L.L., Tsitrin T., Kim M.M., Bera J.J., Jin S.S., Fadrosh D.W., Tallon L.J., Koo H., Zismann V., Hsi Jin S., Blunt S., Vanaken S.S., Riedmuller S.B., Utterback T.T., Feldblyum T.V., Yang Q.Q., Haas B.J., Suh B.B., Peterson J.J., Quackenbush J., White O., Salzberg S.L., Fraser C.M.; "Oryza sativa chromosome 3 BAC OSJNBa0027J18 genomic sequence."; Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases.

EMBL; AC103550; AAT77885.1; -.

EMBL; AC096689; AAT78995.1; -.
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Coxiellaceae; Coxiella.
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Pfam; PF04759; DUF617; 1.
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GO:0005524; F:ATP binding;
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AE016965; AA091184.1; -
029562; 1HYQ.
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                                                                                                Similarity 7; Conserv
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306 AA;
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Pred. No.
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Pred. No.
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Best Local Similarity
Matches 7; Conserv
aureus.";

Lancet 357:1225-1240(2001).

EMBL; AP003364; BABS8327.1; -.

PIR; A90012; A90012.

GO; GO:0005786; C:signal recognition pa
GO; GO:0005524; F:ATP binding; IEA.
GO; GO:0005525; F:GTP binding; IEA.
GO; GO:0005723; F:RNA binding; IEA.
GO; GO:0003723; F:RNA binding; IEA.
GO; GO:0006614; P:SRP-dependent cotrans
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Q99SA0;
01-JUN-2001
01-JUN-2001
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Q9KG72;
01-OCT-2000
01-OCT-2000
01-OCT-2003
                                                                                                                                                                                                                                      MEDLINE=21311952; PubMed=11418146; DOI=10.1016/S0140-6736(00)04403-2; Kuroda M., Ohta T., Uchiyama I., Baba T., Yuzawa H., Kobayashi I., Cui L., Oguchi A., Aoki K.-I., Nagai Y., Lian J.-Q., Ito T., Kanamori M., Matsumaru H., Maruyama A., Murakami H., Hosoyama A., Mizutani-Ui Y., Takahashi N.K., Sawano T., Inoue R.-I., Kaito C., Sekimizu K., Hirakawa H., Kuhara S., Goto S., Yabuzaki J., Kanehisa M., Yamashita A., Oshima K., Puruya K., Yoshino C., Shiba T., Hattori M., Ogasawara N., Hayashi H., Hiramatsu K.; Hiramatsu K.; Whole genome sequencing of meticillin-resistant Staphylococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                01-OCT-2000 (TrEMBLrel. 15, Created)
01-OCT-2000 (TrEMBLrel. 15, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation updat
ATP-binding Mrp protein (Mrp/NDp35 family).
OrderedLocusNames=BH0240;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ATP-binding protein Mrp-like OrderedLocusNames=SAV2165;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   halodurans and genomic sequence comparison Nucleic Acids Res. 28:4317-4331(2000). EMBL; AP001507; BAB03959.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
STRAIN=Mu50 / ATCC 700699;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Staphylococcus aureus (strain Mu50 / ATCC 700699).
Bacteria: Firmicutes; Bacillales; Staphylococcus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ProDom; PD005595; DUF59; 1.
PROSITE; PS01215; MRP; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 MEDLINE-20512582; PubMed-11058132; DOI-10.1093/nar/28.21.4317;
Takami H., Nakasone K., Takaki Y., Maeno G., Sasaki R., Masui
Fuji F., Hirama C., Nakamura Y., Ogasawara N., Kuhara S.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=158878;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ATP-binding; Complete proteome.
SEQUENCE 350 AA; 37949 MW;
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InterPro; IPR000808; Mrp.
Pfam; PF01883; DUF59; 1.
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GO; GO:0005524; F:ATP binding;
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1 (TrEMBLrel. 17,
3 (TrEMBLrel. 24,
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87.5%;
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Q7A0A1;
05-JUL-2004 (TrEMBLrel. 27, Cr
05-JUL-2004 (TrEMBLrel. 27, La
05-JUL-2004 (TrEMBLrel. 27, La
MM2092 protein.
OrderedLocusNames=MW2092;
                                                                                                                                                                                                              Lancet 359:1819-1827(2002).

EMBL; AP004829; BAB55957.1; -.

EMBL; AP004829; BAB55957.1; -.

GO; GO:0005786; C:signal recognition particle (sensu Eukaryota); IEA.

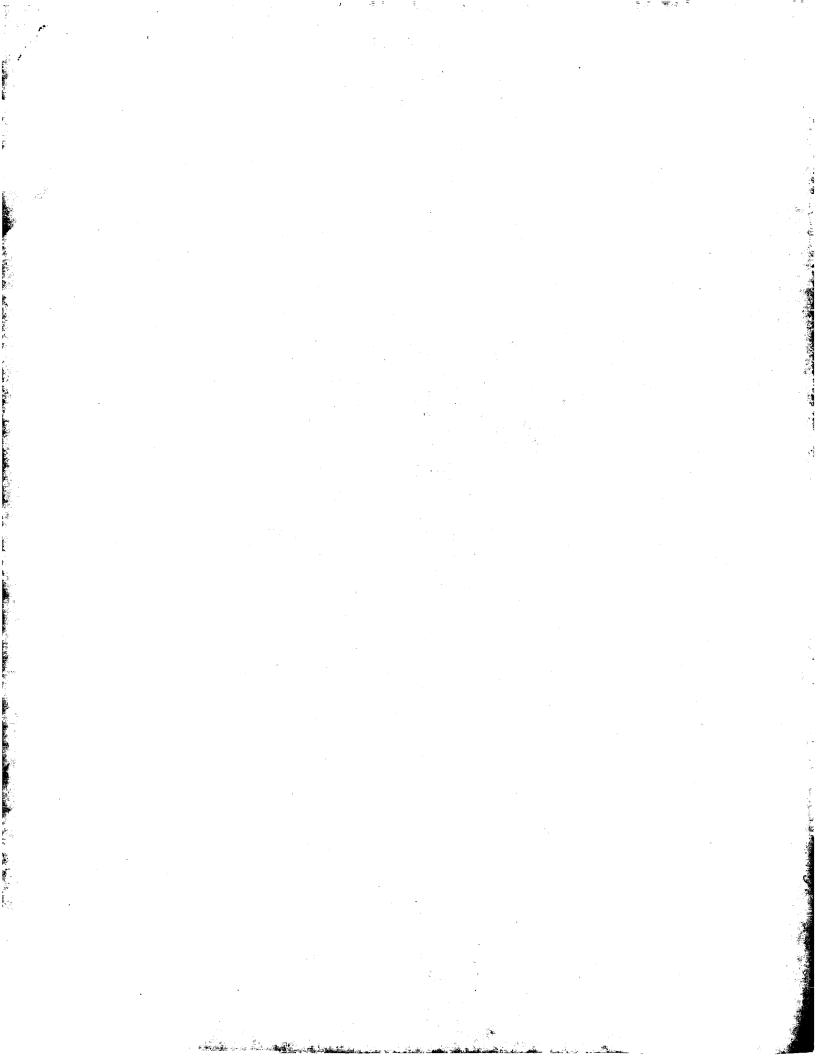
GO; GO:0005525; F:GTP binding; IEA.

GO; GO:0003723; F:RNA binding; IEA.

GO; GO:00066114; P:SRP-dependent cotranslational protein-membr. ..; IEA.

InterPro; IPR000897; SRP54;

ProDom; PD000819; SRP54; 1.
                                                                                                                                                                                    Complete proteome. SEQUENCE 354 AA;
                                                                                                                                                                                                                                                                                                                                        MEDILINE=22040717; PubMed=12044378; DOI=10.1016/S0140-6736(02)08713-5; Baba T., Takeuchi F., Kuroda M., Yuzawa H., Aoki K.-I., Oguchi A., Nagai Y., Iwama N., Asano K., Naimi T., Kuroda H., Cui L., Yamamoto K., Hiramatsu K.; "Genome and virulence determinants of high virulence community-acquired MRSA.";
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ProDom; PD000819; SRP54; 1.
ATP-binding; Complete proteome.
SEQUENCE 354 AA; 38358 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Staphylococcus aureus (strain MW2).
Bacteria; Firmicutes; Bacillales; Staphylococcus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=196620;
                                                          2 LILDVPPG 9
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220 LILDLPPG 227
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8 haemophilus
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P08575; Q16614; (
01-AUG-1988 (Rel
10-OCT-2003 (Rel
05-JUL-2004 (Rel
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MEDLINE=88061067; PubMed=2824653;

Streuli M., Hall L.R., Saga Y., Schlossman S.F.,

"Differential usage of three exons generates at |

mRNAs encoding human leukocyte common antigens."

J. Exp. Med. 166:1548-1566(1987).
                                                                                                              MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T.,
"Distinct functional roles of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HUMAN
                                                                               EMBO
                                                                                                                                                                        Charbonneau H., Tonks N.K., Walsh K.A., Fischer H "The leukocyte common antigen (CD45): a putative protein tyrosine phosphatase.", Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988).
                                                                                                                                                                                                                                                    "Complete exon-intron organization of antigen (CD45) gene.";
"Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                                                                                                                    MEDLINE-87275816; PubMed-2956090;
Ralph S.J., Thomas M.L., Morton C.C., Trowbridge "Structural variants of human T200 glycoprotein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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Charbonneau H., Tonks N.K., Walsh
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                  O.J. 9:2399-2407(1990).

FUNCTION: Required for T-cell activation through the antice receptor. The first PTPase domain has enzymatic activity, the second one seems to affect the substrate specificity of first one.

CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = Interction of the protein tyrosine phosphate (1900).
          tyrosine
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(Rel. 44, Last annotation
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TYR_PHOSPHATASE_PTP; 1.
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                                 InterPro; IPR003961; FN_III.
InterPro; IPR008957; FM_III-like.
InterPro; IPR008987; TYR_phosphatase.
InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 2.
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                                                                                                          GO; GO:0005887; C:integral to plasma membrane; TAS. GO; GO:0005001; F:transmembrane receptor protein ty GO; GO:0007166; P:cell surface receptor linked sign
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EMBL; M23491; AAD15273
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ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type
SIMILARITY: Contains 2 protein-tyrosine
DATABASE: NAME=PROW; NOTE=CD guide CD45
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SIMILARITY: Belongs to
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PS50853; FN3; 2.
PS00383; TYR_PHOSPHATASE_1;
PS50056; TYR_PHOSPHATASE_2;
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email to license@isb-sib.ch).
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PubMed=12368865; DOI=10.1038/nature01099;
Carlton J.M., Angiuoli S.V., Suh B.B., Kooij T.W., Pertea M., Silva J.C., Ermolaeva M.D., Allen J.E., Selengut J.D., Koo H.L., Peterson J.D., Pop M., Kosack D.S., Shumway M.F., Bidwell S.L., Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V., Shallom S.J., van Aken S.E., Riedmuller S.B., Feldblyum T.V., Cho J.K., Quackenbush J., Sedegah M., Shoaibi A., Cummings L.M., Florens L., Yates F.R. III, Raine J.D., Sinden R.E., Harris M.A., Cunningham D.A., Preiser P.R., Bergman L.W., Valdya A.B., van Lin J.H., Janse C.J., Waters A.P., Smith H.O., White O.R., Salzberg S.L., Venter J.C., Fraser C.M., Hoffman S.L., Gardner M.
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Eukaryota; Alveolata; Ap
NCBI_TaxID=73239;
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01-MAR-2004 (TrEMBLrel.
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Cysteine desulfurase.
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splicing; Antigen; Glycoprotein; Hydrolase;
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Missing (in isoform 2).
/FTId=VSP_007780.
C->S: Loss of activity.
L -> P (in Ref. 1).
P -> L (in Ref. 1).
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Last annotation updat
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    Gardner M.J.,
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01-JUN-2003
01-JUN-2003
01-OCT-2003
                                                                                                                                                                                                                                                                                                             Pfam; PF0
Complete
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       "Complete genome sequence and comparative a metabolically versatile Pseudomonas putida Environ. Microbiol. 4:799-808(2002).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=22423060; PubMed=12534463;
Melson K.E., Weinel C., Paulisen I.T., Dodson R.J., Hilbert H.,
Melson K.E., Weinel C., Paulisen I.E., Gill S.R., Pop M., Holmes M.,
Martins dos Santos V.A.P., Fouts D.E., Gill S.R., Pop M., Holmes M.,
Brinkac L.M., Beanan M.J., DeBoy R.T., Daugherty S.C., Kolonay J.F.,
Madupu R., Nelson W.C., White O., Peterson J.D., Khouri H.M.,
Hance I., Chris Lee P., Holtzapple E.K., Scanlan D., Tran K.,
Moazzez A., Utferback T.R., Rizzo M., Lee K., Kosack D., Moestl D.,
Moazzez A., Utferback T.R., Rizzo M., Lee K., Kosack D., Moestl D.,
Wedler H., Lauber J., Stjepandic D., Hoheisel J., Straetz M., Heim S.
Kiewitz C., Eisen J.A., Timmis K.N., Duesterhoeft A., Tuemmler B.,
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EMBL; AABL01000573; EAA21518.1; -.
HSSP; Q9X218; 1EG5.
GO; GO:0008483; F:transaminase activity;
GO; GO:0008152; P:metabolism; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Carucci D.J.;
Genome sequence and comparative analysis
parasite Plasmodium yoelii yoelii.";
Nature 419:512-519(2002).
-I- CAUTION: The sequence shown here is de
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      EMBL; AE016788; AAN HSSP; P24472; 1GUK.
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Pseudomonadaceae; Pseudomonas.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR000192; Aminotrans_V.
Pfam; PF00266; Aminotran_5; 1.
PROSITE; B800595; AA TRANSFER CLASS
SEQUENCE 564 AA; 63705 MW; 0A94E
                                                                                                                                                                                                                                                                        SEQUENCE
                                                                                                                                                                                                                                                                                                                                          Pfam; PF00043;
Pfam; PF02798;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TIGR; PP3742; -.
GO; GO:0016740; F:transferase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Pseudomonas putida (strain KT2440).
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                                                                                                                               6; Conserv
                                                                                                                                                                                                                                                          pro100/07, pro100/07 Clerm.
pro100/087; GST_C like.
pro100/04045; GST_Nterm.
pro200/03; GST_C; 1.
pro200/08; GST_N; 1.
pro100/08; GST_N; 24042 MW; F
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MLFDNHKFT
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(TremBLrel. 24, Last sequence update)
(TremBLrel. 25, Last annotation update)
S-transferase family protein.
                                                                                                                                  Conservative
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66.7%;
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0A94F77AE297887C CRC64;
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                                                                                                                               Mismatches
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a KT2440.";
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A Bloecker H., Boecher M., Mewes H.W., Weil B., Amid C., Osan,
A Fobo G., Han M., Wiemann S.;
A Submitted (JUN-2003) to the EMBL/GenBank/DDBJ databases.
EMBL; BX538045; CAD97984.1; -.
R EMBL; BX538045; CAD97984.1; -.
R GO; GO:0005576; C:extracellular; IEA.
R InterPro; IPR006209; EGF_like.
R InterPro; IPR000639; Fibrnctnl.
R InterPro; IPR000093; Fibrnctnl.
R InterPro; IPR000562; FN Type_II.
R Pfam; PF00039; fnl; 9.
Pfam; PF000040; fnl; 9.
PFam; PF000040; fnl; 9.
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01-OCT-2003 (TrEMBLrel. 25, Created)
01-OCT-2003 (TrEMBLrel. 25, Last seq.
01-MAR-2004 (TrEMBLrel. 26, Last annx
Hypothetical protein DKFZp686B18150.
Name=DKFZp6866B18150;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q6MZF4;
05-JUL-2004 (TrEMBLrel. 27, Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hvmothetical protein DKFZp686KI39 (Hypothetical pro
                                                                        Ansorge W., Krieger S., Regiert T., Rittmueller C., Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., I Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databs EMBL; BX649182; CAE46200.1; -. EMBL; BX649002; CAE45885.1; -. EMBL; BX640002; CAE45885.1; -. GO; GO:0005576; C:extracellular; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ProDom; PD000995; FN_Type_II; SMART; SM00058; FN1; 9. SMART; SM00059; FN2; 2.
                                                                                                                                                                                                                          TISSUE=Human cervix;
The German Human cDNA Consortium;
                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Hypothetical SEQUENCE 7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PROSITE; PS00022; EGF_1; UNKNOWN_1.
PROSITE; PS01253; FIBRONECTIN_1; 9.
PROSITE; PS00023; FIBRONECTIN_2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Q7Z391
                           InterPro; IPR006209;
InterPro; IPR000083;
                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                    NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                             Name=DKFZp686K139; Synonyms=DKFZp686F219;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q6MZF4
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 75. 6; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            LANHNAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               LYNNHKFT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         1 protein
749 AA; 8
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
                                                                                                                                                                                                                                                                                                                                                                                                                        (Human)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      AA;
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                                                                                                                                                                                                                                                                                                                                                                  Chordata; Craniata; Vertebrata; Euteleostomi; Primates; Catarrhini; Hominidae; Homo.
                        ; EGF_like.
Fibrnctn1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      83524 MW; C8DDF97F3ED2F0DE CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        76.5%;
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25, Last sequence update)
26, Last annotation update)
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Pred. No. 1.1e+02;
1; Mismatches 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT; 1103
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                                                                                                                                                                                  Han M.,
                                                                                                                                                                                     Schwager B.,
dan M., Wiemann
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Osanger
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DKFZp686F219)
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R EMBL, BX640999; CAE46002.1; -.

R GG; GO:0005576; C:extracellular; IEA.

R InterPro; IPR002086; Aldehyd dehydrog.

R InterPro; IPR002086; FAldehyd dehydrog.

R InterPro; IPR000883; FIDFUNCTH1.

R InterPro; IPR003961; FNIII subd.

R InterPro; IPR003961; FNIII subd.

R InterPro; IPR003957; FN III - Like.

R InterPro; IPR003951; FN III - Like.

R InterPro; IPR00039; FN III - Like.

R InterPro; IPR00039; FN III - Like.

R FINTS; PR00013; FNTYPEII.

R PFAMT; PR00012; FNTYPEII.

R PRINTS; PR00011; FNTYPEII.

R PRINTS; PR00011; FNTYPEIII.

R PRINTS; PR00011; FNTYPEIII.

R PRINTS; PR00011; FNTYPEIII.

R PRINTS; PR000013; FNTYPEIII.

R PRINTS; PR000016; FNI; 7.

R SMART; SM00005; FNI; 7.

R SMART; SM00005; FNI; 1.

R PROSITE; PS00023; FIRSONECTIN 1; 7.

R PROSITE; PS00023; FIBRONECTIN 1; 7.

R PROSITE; PS00023; FIBRONECTIN 2; 2.

PROSITE; PS00023; FIBRONECTIN 2; 7.

R PROSITE; PS00023; FIBRONECTIN 2; 7.

PROSITE; PS00023; FIBRONECTIN 2; 7.

PROSITE; PS00023; FIBRONECTIN 2; 7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR008957; FN_III-like.
InterPro; IPR00852; FN_Type_II.
Pfam; PP00039; fn1; 9.
Pfam; PP00040; fn2; 2.
Pfam; PP00040; fn2; 2.
Pfam; PP00041; fn3; 4.
PRINTS; PR00013; FNTYPEI.
PRINTS; PR00013; FNTYPEII.
PRODOM; PD00995; FN_TYPE_II; 2.
SMART; SM00058; FN1; 9.
SMART; SM00058; FN1; 9.
SMART; SM00059; FN2; 2.
SMART; SM00059; FN2; 2.
SMART; SM0059; FN2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Q6MZM7 PRELIMINARY; PR"; 2193 Am. Q6MZM7; Q6MZM7; Q6MZM7; Q6MZM7; Q7 Created)
05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation updat Hypothetical protein DKFZp686C012165 (Fragment).
Name=DKFZp686C012165;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Lauber J., Bahr A., Mewes H.W., Weil B., Han M., Wiemann S.; Submitted (AUG-2003) to the EMBL/GenBank,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PROSITE; PS50853; FN3; 4. Hypothetical protein. NON_TER 1 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The German Human cDNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
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  protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chordata;
Primates;
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75.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      W.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
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RESULT 9
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Q68DP8
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Best Local
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Best Local S
Matches 6
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A Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., Han M.,

L Submitted (AUG-2004) to the EMBL/GenBank/DDBJ databases.

R EMBL; CR749317; CAH18172.1; -

R InterPro; IPR002086; Aldehyd dehydrog.

R InterPro; IPR006209; EGF 11ke.

R InterPro; IPR00083; Fibrnctn1.

R InterPro; IPR003962; FNIII subd.

R InterPro; IPR003962; FNIII subd.

R InterPro; IPR003957; FNIII-1ike.

R InterPro; IPR003957; FNIII-1ike.

R InterPro; IPR008957; FNIII-1ike.
    P07589;
01-APR-1988
01-FEB-1994
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                   PROSITE; PS00687; A
PROSITE; PS00022; E
PROSITE; PS01253; F
PROSITE; PS00023; F
                                                                                                                                                                                                                                                                                                                                                                                                       PROSITE; PSOO
Hypothetical
SEQUENCE 22
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                25-OCT-2004 (TrEMBLrel. 28, Created
25-OCT-2004 (TrEMBLrel. 28, Last as
25-OCT-2004 (TrEMBLrel. 28, Last ar
Hypothetical protein DKFZp686H0342.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota, Metazoa, Chordata,
Mammalia, Eutheria, Primates,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                             Match
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                                                                                                                                                                                                                 425
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    PF00039; fn1; 12.
PF00040; fn2; 2.
PF00041; fn3; 15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; PR00014; FNTYPEIII.
; PD000995; FN TYPe_II;
SM00058; FN1; 12.
SM00059; FN2; 2.
                                                                                                                                                                                                                                                             N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SM00060;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N
                                                                                                                                                                                                                                                                                                         6; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           PR00012;
                                                                                                                                                                                                                 LYNNHNYT 432
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Pred. No. 3.
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Pred. No. 3.5e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Craniata; Vertebrata; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Deutschenbaur S., Schaipp A
Osanger A., Fobo G., Han M.,
                                                                                                                                                                                                                                                                                                            Mismatches
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    PARTIAL SEQUENCE.

PARTIAL SEQUENCE.

MEDLINE=83117805; PubMed=6218503;

MEDLINE=83117805; PubMed=6218503;

Petersen T.E., Thorgersen H.C., Skorstengaard K.,

Petersen T.E., Thorgersen H.C., Magnusson S.;

Petersen T.E., Thorgersen H.C., Magnusson S.;

Petersen T.E., Thorgersen H.C., Skorstengaard K.,

Petersen T.E., Thorgersen H.C., Skorstengaard K.,
                        InterPro;
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or send a
                                                                                                                                                                                                                                                                                                                                                                                                                           This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the El the European Bioinformatics Institute. There are no resti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Petersen T.E., Thorgersen H.C. Sahl P., Sottrup-Jensens L., W "Partial primary structure of of internal homology.", Proc. Natl. Acad. Sci. U.S.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Skorstengaard K., Jensen M.S., Sahl P. "Complete primary structure of bovine Eur. J. Biochem. 161:441-453(1986).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
Bovinae; Bos.
                                                                                                                                            InterPro;
InterPro;
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                                                                                                                                                                                                                                                                                                                                                                              use by non-profit institutions as long modified and this statement is not removed.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ++
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Name=FN1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Fibronectin
                                                                                                                                                                                             InterPro;
                                                                                                                                                                                                              (nterPro;
                                                                                                                                                                                                                                            HSSP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ÷
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   fibronectins.";
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                                                                                                                        [nterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   deposited as fibrils in the extracellular matrix: PTM: Sulfated (By similarity).
SIMILARITY: Contains 12 fibronectin type I domains.
SIMILARITY: Contains 2 fibronectin type II domains.
SIMILARITY: Contains 15 fibronectin type III domains.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       c. Natl. Acad. Sci. U.S.A. 80:3218-3222(1983). FUNCTION: Fibronectins bind cell surfaces and including collagen, fibrin, heparin, DNA, and are involved in cell adhesion, cell motility, healing, and maintenance of cell shape. SUBUNIT: Mostly heterodimers or multimers of variants, connected by 2 disulfide bonds near to a lesser extend homodimers.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  TISSUE SPECIFICITY:
by hepatocytes. Cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Event=Alternative splicing, Named i Comment=A number of isoforms are domain; and the connecting strand fibronectin and absent in others;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SUBCELLULAR LOCATION: Secreted; ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IsoId=P07589-1; Sequence=Displayed; TISSUE SPECIFICITY: Plasma FN (soluble dimeric form) is secreted by hepatocytes. Cellular FN (dimeric or cross-linked multimeric forms), made by fibroblasts, epithelial and other cell types, is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Name=1;
                                                                                                                                                                                                                                                             A26452; FNBO.
                           PF00040;
PF00041;
                                                                                                                                                                                                                                                                                   K00800;
                                                                         PF00039;
                                                                                                                                                                                                                                         P08253;
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                                                                                        ; IPR000083; 1; IPR003961; 1; IPR008957; 1; IPR000562; 1; IPR009562; IPR0095
                                                                                                                                                                                                                                                                                                                                  requires a license agreement (S
an email to license@isb-sib.ch).
                                                                                                                                                                                                                 IPR006209;
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                                                                                                                                                                                                                                                                                      AAA30521.2;
                           fn2;
fn3;
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Cetartiodactyla; Ruminantia;
                                                                                           FN_III.
FN_III-like.
FN_Type_II.
FnIII_subd.
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1 3 are present
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Lasma fibronectin.
                                                                                                                                                                                                                                                                                                                                                                                                       as
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PRINTS; PRO0013; RNTYPEIII.
PRINTS; PRO0014; FNTYPEIII.
PRODOM; PD000995; FN Type II; 2.
PROSITE; PS00022; EGF 1; 2.
PROSITE; PS01253; FIBRONECTIN 1; 1:
PROSITE; PS01253; FIBRONECTIN 2; 2
PROSITE; PS0853; FNS; 15.
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Sulfation.
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protein sequencing; Glycoprotein; Heparin-binding;
orylation; Plasma; Pyrrolidone carboxylic acid; Repeat;
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577
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NATER CONTRACTOR CONTR

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The German cDNA CONSORTIUM;

AK KOehrer K., Beyer A., Mewes H.W., Weil B., Amid C., Osanger Pobo G., Han M., Wiemann S.;

EDNA CONSORTIUM;

Submitted (Aug-2004) to the EMBL/GenBank/DDBJ databases.

REMBL; CR749316; CAH18171.1; -

REMBL; CR749316; CAH18171.1; -

RINTEPTO; IPR002086; Aldehyd dehydrog.

RINTEPTO; IPR003962; FRIII Subd.

RINTEPTO; IPR003962; FRIII Subd.

RINTEPTO; IPR003962; FNIII-like.

RINTEPTO; IPR003967; FN III-like.

RINTEPTO; IPR003967; FN III-like.

RINTEPTO; IPR003961; FN III-like.

RINTS; PR00011; FNTYPEII.

R Pfam; PF00041; FNTYPEII.

R PRINTS; PR00012; FNTYPEIII.

R PRINTS; PR00012; FNTYPEIII.

R PROSITS; PR00013; FNTYPEIII.

R PROSITS; PR00059; FN II-li.

R PROSITS; PS000687; ALDEHYDE DEHYDR GLU; UNKNOWN 1.

R PROSITS; PS00022; EGF 1; UNKNOWN 2.

R PROSITS; PS00022; EGF 1; UNKNOWN 2.

R PROSITS; PS00023; FIBRONECTIN 1; 12.

R PROSITS; PS00023; FIBRONECTIN 2; 2.

Hypothetical protein.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q68DP9 PRELIMINARY; PRT; 2267 AA. Q68DP9; 25-OCT-2004 (TrEMBLrel. 28, Created) 25-OCT-2004 (TrEMBLrel. 28, Last sequence update) 25-OCT-2004 (TrEMBLrel. 28, Last annotation update) Hypothetical protein DKFZp686K08164. Name=DKFZp686K08164;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ISSUE=Uterus endothel;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   394 LYNNHNYT 401
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75.0%;
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Interchain (with C-2246).
Sulfotyrosine (Potential).
Sulfotyrosine (Potential).
N-linked (GlcNac...).
O-linked (GlNac...).
O-linked (GalNac...).
O-linked (GalNac...).
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MW; C2D21D486F498D5C
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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₃.7e+02;
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Q6N0A6
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Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A Bloecker H., Boecher W., Mewes H.W., Weil B., Amid C Probo G., Han M., Wiemann S.;

L Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databa EMBL, Bx640608; CAE45714.1; -.

R GO; GO:0005576; C:extracellular; IEA.

InterPro; IPR002096; Aldehyd dehydrog.

R InterPro; IPR002096; FM_III.

R InterPro; IPR003951; FN_III.like.

InterPro; IPR003951; FN_III.like.

InterPro; IPR003951; FN_III.like.

R InterPro; IPR0003951; FN_III.like.

R InterPro; IPR000395; FN_III.like.

R InterPro; IPR00039; FNI; 12.

R Pfam; PF00041; fn3; 15.

R Pfam; PF00041; fn3; 15.

R Pfam; PF00041; fn3; 15.

R Pfam; PF00013; FNTYPEII.

R PFNNTS; PR00013; FNTYPEII.

R PRINTS; PR00013; FNTYPEII.

R PRINTS; PR00013; FNTYPEII.

R PRINTS; PR00013; FNTYPEII.

R PRINTS; SM00058; FN1; 12.

R PROSTIT; SM00058; FN3; 15.

R SMART; SM00058; FN3; 15.

R PROSITE; PS00127; GGF 1; UNKNOWN \( \bar{2} \).

R PROSITE; PS00123; FIBRONECTIN \( \bar{2} \); 2.

R PROSITE; PS00123; FIBRONECTIN \( \bar{2} \); 2.
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Best Local Similarity
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25-OCT-2004 (TrEMBLrel. 28, Created)
25-OCT-2004 (TrEMBLrel. 28, Last sequence update)
25-OCT-2004 (TrEMBLrel. 28, Last annotation update)
Hypothetical protein DKFZp686F10164.
Name=DKFZp686F10164;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Q6N0A6;
05-JUL-2004
05-JUL-2004
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last amnotation updat
Hypothetical protein DKFZp686M04163.
Name=DKFZp686M04163;
Homo sapiens (Human).
                                                                                                                                                                                                                       Q68DT4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 TISSUE=Human uterus endothel primary cell The German Human cDNA Consortium;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
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                                                                                                                                                                                                                       PRELIMINARY;
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75.0%;
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Pred. No. 3.7e+02;
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Pred. No. 3.7e+02;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Mismatches
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RESULT 13
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Submitted (AUG-2004) to the EMBL/GenBank/DDBJ databases.
EMBL; CR749281; CAH18136.1; -.
EMBL; CR749281; --
EMBL; CR749281
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
Best Local
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PRINTS; PRO0013; FNTYPEII.

PRINTS; PRO0014; FNTYPEIII.

PRODOM; PD000995; FN Type_II; 2

SMART; SM00058; FNI; 12.

SMART; SM00059; FN2; 23

SMART; SM00060; FN3; 15.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        FINC HUMAN STANDARD; PRT; 2386 AA. P02751; O95609; O95610; Q14312; Q14325; Q14326; Q86T; Q96KP7; Q96KP8; Q96KP9; Q9H1B8; Q9HAP3; Q9UMK2; 21-JUL-1986 (Rel. 01, Created) 01-NOV-1997 (Rel. 35, Last sequence update) 25-OCT-2004 (Rel. 45, Last annotation update) 25-OCT-2004 (Rel. 45, Cast annotation up
                                                                       Ansorge W., Krieger S.
Mewes H.-W., Weil B.,
                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A. (ISOFORM 2).
MEDLINE=21600194; Pubmed=11737888; DOI=10.1186/bcr325;
Schor S.L., Schor A.M.;
"Phenotypic and genetic alterations in mammary stroma:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS00687; ALDEHYDE DEHYDR GLU; PROSITE; PS00022; EGF 1; UNKNOWN 2. PROSITE; PS01253; FIBRONECTIN 1; 12. PROSITE; PS00023; FIBRONECTIN 2; 2.
Wiemann S.;
Submitted (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Name=FN1; Synonyms=FN;
Homo sapiens (Human).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Hypothetical protein. SEQUENCE 2357 AA;
                                                                                                                                                                      SEQUENCE FROM N.A. TISSUE=Cervix;
                                                                                                                                                                                                                                                                                          for tumour progression.";
Breast Cancer Res. 3:373-379(2001).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9606;
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Mammalia; Eutheria;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The German cDNA Consortium;
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SEQUENCE OF 1-38 FROM N.A.
MEDLINE=87030890; PubMed=3770189; DOI=10.1016/0014-5793(86)80029-1;
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"The cell attachment domain of fibro
primary structure.";
J. Biol. Chem. 257:9593-9597(1982).
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TISSUE-Peripheral blood T-cell, and Umbilical
Godfrey H.P., Ebrahim A.A.;
Submitted (DEC-1995) to the EMBL/GenBank/DDBJ
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         MEDLINE=85280409;
Bernard M.P., Koll
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Oldberg A., Linney E., Ruoslahti E.;
Oldberg A., Linney E., Ruoslahti E.;
"Molecular cloning and nucleotide sequence of a cDNA clone
the cell attachment domain in human fibronectin.";
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Parker A.E., Boutell J., Carr A., Maciewicz R.A.; "Novel cartilage-specific splice variants of fibronectin."; Osteoarthritis Cartilage 10:528-534(2002).
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MEDILINE=87026578; PubMed=3021206;
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                                     Sasaki T., Brakebusch C., Engel J., Timpl R.; mac-2 binding protein is a cell-adhesive protein matrix which self-assembles into ring-like structu integrins, collagens and fibronectin."; EMBO J. 17:1606-1613 (1998).
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STRUCTURE BY NMR OF 1447-1540.
MEDLINE=92162710; PubMed=1311202;
                                                                                                                                                                                                  CHARACTERIZATION OF FIBRIN-BINDING SITE MEDLINE=95081153; PubMed=7989369;
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                                                                                                                                                                                                                                                                                              Balbona K.,
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                                                                                                         PubMed=9501082;
                                                                                                                                              J. Biol.
                                                                                                                                                                                                                                                                                                         MEDLINE=93015879;
                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=91190085; PubMed=2012601;
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Proc. Natl. Acad. Sci. U.S.A. 82:7160-7164(1985)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Primary
                                                                                                                    INTERACTION WITH
                                                                                                                                                                                                                                                                                                                      BLN1-BINDING SITE.
                                                                                                                                                                                                                                                                  Fibulin binds to itself and to the carboxyl-terminal
                                                                                                                                                                                                                                                                                                                                                                                                                             -GLYCOSYLATION OF THR-2064
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Escherichia
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ardo A., Pearlstein E., Frangione B.;
structure of human plasma fibronectin.
domain.";
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                                                                                                                                               Chem.
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                                                                                                                                                                                                                                        fibronectin.";
Chem. 267:20120-20125(1992).
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Boutell J., Carr A., N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COLI
                                                                                                                                               269:31938-31945(1994)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           258:12670-12674(1983).
                                                                                                         DOI=10.1093/emboj/17.6.1606;
                                                                                                                      LGALS3BP
                                                                                                                                                                                                                                                                                           PubMed=1400330;
H., Godyna S., Ingham K.C.,
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Maciewicz R.A.;
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H
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the human hepatoma
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RESULT 14
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      DACE DE REPRESENTATION DE LA COMPANIA DEL COMPANIA DE LA COMPANIA DE LA COMPANIA DEL COMPA
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                                                                                                       TISSUE-Human endometrium carcinoma cell line;

(I The German Human cDNA Consortium;

A Poustka A., Albert R., Moosmayer P., Schupp I., Wellenreuther R.,

A Mewes H.W., Weil B., Amid C., Osanger A., Fobo G., Han M., Wiemann S.

L Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases.

R EMBL; BX640731; CAE45947.1; -.

R CG, GC:0005576; C:extracellular; IEA.

R InterPro; IPR002086; Aldehyd_dehydrog.

R InterPro; IPR002096; Fibrnctn1.

R InterPro; IPR000839; FGF like.

R InterPro; IPR003961; FN III.

R InterPro; IPR003957; FN III-like.

InterPro; IPR003957; FN III-like.

InterPro; IPR003957; FN III-like.

Pfam; PF00039; fn1; 2.

Pfam; PF00039; fn1; 2.

Pfam; PF00041; fn3; 2.

PFam; PF00041; fn3; 16.
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Best Local
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05-JUL-2004 (TrEMBLrel. 27, Last sequence update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
05-JUL-2004 (TrEMBLrel. 27, Last annotation update)
Hypothetical protein DKFZp686M2451 (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=96069779; PubMed=7583666;
Potts J.R., Phan I., Williams M.J., Campbell I.D.;
"High-resolution structural studies of the factor XIIIa
site and the first type 1 module of fibronectin.";
Nat. Struct. Biol. 2:946-950(1995).
PRINTS; PR00013; FNTYPEII.
ProDom; PD000999; FN Type_II; 2.
SMART; SM00058; FN1; 12.
SMART; SM00059; FN2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Name=DKFZp686M2451;
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MEDLINE=94141923; PubMed=8308892;
Williams M.J., Phan I., Harvey T.S.,
Campbell I.D.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=93046665; PubMed=1423622; DOI=10.1016/0092-8674(92)90600-H; Main A.L., Harvey T.S., Baron M., Boyd J., Campbell I.D.; "The three-dimensional structure of the tenth type III module of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Baron M., Main A.L., Driscoll P.C
Campbell I.D.;
"IH NWR assignment and secondary
III module of fibronectin.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         J. Mol.
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75.0%;
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Pred. No. 3.9e+02;
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05-JUL-2004
05-JUL-2004
05-JUL-2004
                                                                                                   PROSITE; PS00687; ALDEHYDE DEHYDR GLU;
PROSITE; PS00022; EGF 1; UNKNOWN 2.
PROSITE; PS01253; FIBRONECTIN 1; 12.
PROSITE; PS00023; FIBRONECTIN 2; 2.
PROSITE; PS0853; FN3; 17.
                                                                                                                                                          PRINTS; PR00013; FNTYPEII.

ProDom; PD000995; FN Type II;

SMART; SM00058; FN1; 12.

SMART; SM00059; FN2; 2.

SMART; SM00060; FN3; 17.
                                                                                                                                                                                                                                                                                                           Fobo G., Han M., Wiemann S.;
Submitted (AUG-2003) to the EMBL/GenBank/DDBJ databases
EMBL; BX640875; CAE45932.1; -.
EMBL; BX640875; CAE45932.1; -.
EMBL; BX640875; CAE45932.1; -.
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NON TER 1
SEQUENCE 2444 AA;
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PROSITE; PS00687; ALDEHYDE DEHYDR GLU;
PROSITE; PS00022; EGF 1; UNKNOWN 2.

PROSITE; PS01253; FIBRONECTIN 1; 12.

PROSITE; PS00023; FIBRONECTIN 2; 2.

PROSITE; PS00023; FIBRONECTIN 2; 2.
                                                                                                                                                                                                                                          InterPro; IPR002086; Aldehyd_dehydrog.
InterPro; IPR006209; EGF like.
InterPro; IPR000083; Fibrnctn1.
InterPro; IPR0003951; FN III.
InterPro; IPR008957; FN_III-like.
InterPro; IPR008562; FN_Type_II.
Defam. Defon2036.
                                                                                                                                                                                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
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                                                                                   Hypothetica
SEQUENCE
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                                                                                                                                                                                                                                                                                                                                                                   The German Human cDNA
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425
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                    2 LYNNHKFT
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LYNHNYT
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                                                                                    l protein
2477 AA;
                                         Conservative
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                                                                                                                                                                                                                fn3;
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Primates;
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Consortium;
M. Mewes H.W., Weil B.,
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Pred. No. 4e+0
1; Mismatches
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Search

completed: May

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Job time : 63.1351 secs

Copyright

GenCore version 5.1.6 (c) 1993 - 2005 Compugen Ltd.

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SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	ū	4	ω	N		Result No.
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The invention discloses a peptide comprising the human leukocyte antigen (HLA) binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

Stauss

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Amrolia PJ;

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD.

WPI; 2002-599413/64.

ALIGNMENTS

RESULT 1 ABG31981

Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; C antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; compaty forming unit-granulocyte macrophage; immunotherapeutic; 30-NOV-2000; 2000WO-GB004566. 06-JUN-2002. Human CD45 HLA-binding peptide, huCD45/369. 05-NOV-2002 ABG31981 standard; peptide; 9 30-NOV-2000; 2000WO-GB004566. WO200244207-A1 Homo sapiens. haematopoietic; ABG31981; (first entry) malignant. B

CIL;

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RESULT 2
AAW35856
ID AAW3
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Best Local's
protein, e.g. the present sequence, linked to a targetting polypeptide that binds a molecule, which differentiates a host cell from a tissue graft cell, or selectively targets a stimulator cell involved in the autoimmune response. A veto molecule, in which the protein binds a
                                                                                                                                                                                                                                                                                             T lymphocyte veto molecule comprising response cell activa linked to molecule that targets stimulator cell marker, us selective suppression of immune response, e.g. prevention rejection or treatment of auto-immune disease.
                                                                                                                                                      A novel T lymphocyte veto
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disease; allergy; immunological disorder;
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        specific regulation of particular stimulator cells that can kill graft cells or respond to autoantigens, but leave other stimulator cells unaffected, e.g. CD4 or CD8 positive cells can be regulated without one affecting the other. The veto molecule can be administered locally to minimise generalised immunosuppression
                                                                                                                                                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Translational profiling; expressed protein tag; EPT; kinder protease; protease inhibitor; transporter; cytoskeletal protease; protease inhibitor; crancer MHC; major histocompatability complex; myeloma; colon cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               gastric cancer;
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The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription fac polypeptide is useful as an immunogenic composition for elicitin

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RESULT 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
The present invention provides the protein and coding sequences of proteins from a variety of organisms, including human, dog, cat, he cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       25-JAN-2000; 2000US-00491404.
17-JUL-2000; 2000US-00617746.
03-AUG-2000; 2000US-00631451.
15-SEP-2000; 2000US-00663870.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse; tomato; monkey; dog; sea urchin; expressed sequence tag; EST; diagnostics; forensic test; gene mapping; genetic disorder; biodiv
                                                                                                                                                                                                                                Isolated polypeptide for treatment of diseases, antibodies and research use.
                                                                                                                                                                                          Claim
                                                                                                                                                                                                                                                                                                                              WPI; 2001-476164/51
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RESULT 5
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The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic manufactural and of the purified polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide, is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC useful for identifying compounds that binds to a naturally processed CC lass I or class I MHC-binding polypeptide. The polypeptides and CC polypucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC lymphoma or leukaemia. These are also useful for screening agents for CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPP) isolated from human tissue for translational CC specification but was obtained in electronic format directly from WIPO at
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Best Local S
Matches 9
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                      WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Translational profiling; expressed protein tag; EPT; kin. protease; protease inhibitor; transporter; cytoskeletal; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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ive 0; Mismatches
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Best Local
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25-APR-2000; 2000US-00552317.

20-JUN-2000; 2000US-00598042.

19-JUL-2000; 2000US-00620312.

03-AUG-2000; 2000US-00653450.

14-SEP-2000; 2000US-00663191.

19-OCT-2000; 2000US-00693036.

29-NOV-2000; 2000US-00727344.
                                                                                                                                                                                                                                                                                                                                                                                                                    23-DEC-1999;
21-JAN-2000;
25-APR-2000;
The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                  Novel nucleic acids and
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                                                                                                                                                                                                                                                             Liu C, Asundi V, Wang Z, Wehrman T, Goodrich R, Drmana
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                                                                                                                                                           2407; 10078pp;
                                                                                                                                                                                                                                                              ndi V, Chen R,
rman T, Xu C,
Drmanac RT;
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J, Zhao
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Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                            The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cycoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, is useful for treating content and that binds to this polypeptide, is useful for treating concern. The polypeptide is also useful for class I MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing the polypeptides are particularly useful for treating or preventing the polypeptides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Translational profiling; expressed protein tag; EPT; kin: protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. kina
cytoskeletal proteins, rece
treating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human expressed protein tag
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                                                          myeloma,
                                                                                                                                                                                                                                                                                                                                                                                                   Example 2;
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colon cancer, gastric cancer, adenocarcinoma, sarcoma, or leukaemia. These are also useful for screening agenthe above mentioned diseases. This sequence represents
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Pred. No.
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RESULT 8
ADQ39377
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                   The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an isolated polypeptide comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in completic acid molecule; a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a representation of detecting an SNP in a nucleic acid molecule; and a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; and a supplication and supplies acid molecule; a method of detecting an SNP in a nucleic acid molecule; and a supplies acid molecule; a method of detecting an SNP in a nucleic acid molecule; and a supplies acid molecules and a supplies acid molecules a
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Cargill M,
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Pred. No.
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor, transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   myocardial infarction. The novel detection method has cardiant activite The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing
                                                                                                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, troytoskeletal proteins, receptors or transcription factors).
                                                                                                                                       Example
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0335780P.
20-FEB-2002; 2002US-0358985P.
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fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed
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                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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01-OCT-2001;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, me lymphoma or leukaemia. These are also useful for screening agents treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for transla profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from ttp.wipo.int/pub/published_pct_sequences
                                                                                                                                                               New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                      WPI;
                                                                                                                                                                                                                                                                                                  04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                              28-MAR-2002; 2002WO-US009671
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human expressed protein tag
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                                                                                                                          Example
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                                                                                                                          SEQ
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2001US-029544P.
2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
2002US-0358985P.
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                                                                                                                        NO 1906; 134pp;
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Pred. No. 1.2
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                                                                                                                          English.
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RESULT 12
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Best Local
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0392544P.
08-MUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Translational profiling; expressed protein tag; EPT; kinase; photoprotease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       class I or class II MHC-binding polypeptide. The polypeptides and polypeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-MAR-2002;
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                                                                                                                                                                                                                                                                       Example 2;
                                                                                                                                                                                                                                                                                                                                                     treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (ZYCO-) ZYCOS
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                                                                                                                                                                                                                                                                                                                                                        cancer,
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                                                                                                                                                                                                                                                                    SEQ ID NO 1911; 134pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2001US-0310801P.
2001US-0326370P.
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Pred. No. 1
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RESULT 13
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The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly
                                                                                                                                                                                                                                screening
cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              class I or class II MHC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanc lymphoma or leukacemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translation profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein tyrosine phosphatase; rever
inducible signalling pathway; cell
guest vs. host disease; autoimmune
                                                                                                                                                                                                  Disclosure; SEQ ID NO
                                                                                                                                                                                                                              Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            21-AUG-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cytostatic; immunosuppressive; antiallergic;
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human protein tyrosine phosphatase
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                                                                                                                                                                                                                                                                                                                                                                              (CEPT-)
                                                                                                                                                                                                                                                                                                                                                                                               (COLD-)
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                                                                                                                                                                                                  81; 238pp; English
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Pred. No. 1.3
); Mismatches
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RESULT 14
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                                                                                                                                          The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune diseases; altergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1143
                                                                                                  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  soft tissue sarcoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human soft tissue sarcoma-upregulated protein - SEQ ID 1664.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADQ18845 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (PROT-)
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nes 9; Conserv
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Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 1664; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Conservative
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                        100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            cytostatic; gene therapy; vaccine; screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zlotnik A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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Pred.
                        Score 51; Pred. No. 1
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                  DB ;
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                                             Length 1143;
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RESULT 15
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S
                                                                      therapy. The human KPP proteins and polymucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and compounds or in altering the expression of the target polynucleotide and the expression of the t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Ramkumar J, Marquis
Becha SD, Lee SY, I
Jackson AA, Yang J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy; developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
Sequence 1192 AA;
                                                                                                                                                                                                                                                                                                                                                                                                          invention have cytostatic, antiarteriosclerotic, anticonvulsant nootropic, neuroprotective, cerebroprotective, anti-HIV, antiall
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   02-SEP-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2004074453-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    human; kinase and phosphatase protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               The present sequence represents the human kinase and phosphatase protein (KPP), designated KPP-20. The human KPP sequences from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2004; 2004WO-US005092.
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                                                                                                                                                                                                                                                                                                                                                                                      antiinflammatory and thyromimetic activities, and can be used in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (INCY-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           antiarteriosclerotic; anticonvulsant; nootropic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 208
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1; SEQ ID NO 20; 299pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADR39793.
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                                                     bind to or modulate the activity
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Hafalia AJA, Rich
, Gorvad AE;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          KPP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       enzyme; cytostatic;
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Length 1192;

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RESULT 16
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Best Local
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                                                                                                                                                                                                                 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibod that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in nucleic acid molecule; a method of detecting a variant polypeptide; and
                             method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises in isolated nucleic acid molecule comprising at least further comprises.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a novel method for identifying an individual who
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the individual's nucleic acids
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 23-SEP-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human myocardial
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RESULT 17
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This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti co-obesity pharmaceutical compositions. Specifically, it refers to a high combility group I-C protein (HMGI-C) that is associated with obesity and control is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present convention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, continuity of the convention and continues and the encoded proteins thereof were this method novel nucleotides and the encoded proteins thereof were this method novel nucleotides and the encoded proteins thereof were this method novel nucleotides and the encoded proteins thereof were the mitigal that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or cobesity. These compositions exhibit anorectic, antidiabetic and the invention.
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                                                                                                                                                                                                                                                                                                                                                                                expression analysis between adipose mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                    Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                adipogenesis; hypertension; cardiovascular disease antidiabetic; hypotensive; PTPase receptor type C.
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12-JUN-2003; 2003US-0478206P
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RESULT 18
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                                                                                                                   The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in ar individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lung, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered expression in remal transplantation and expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1256
                                                                                                                                                                                                                                                                                                                                                   Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of the genes.
                                                                                            Sequence 1256
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20-DEC-2002; 2002US-00325899.
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                                                                                                                                                                                                                                                                                                                          Claim 65; SEQ ID NO 2975; 1762pp; English
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Rosenberg S;
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The invention relates to a novel method for identifying an individual who comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's cultered risk for myocardial infarction in the individual's cultered risk for myocardial infarction in the individual's cultered risk for myocardial infarction in the individual's the specification or its complement and encoding any one of the antered comprising at least complement and encoding any one of the amino color and sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in conspent; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in concleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and composition for identifying an agent useful in treating or preventing composition for treating or prevention may be used in gene therapy. The method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction. The novel detection method has cardiant activity. The method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction. This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
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10-MAR-2003; 2003US-0453153-
30-ABR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human myocardial infarction-associated gene derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADQ39376;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-JUL-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (APPL-) APPLERA CORP
  1258
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Iakoubova
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein,
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Query Match

100.0%;

Score

51; DB 8;

Length 1258;

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RESULT 20
ADQ39379
the nucleotide sequences given in the specification in the individual's caltered risk for myocardial infarction in the individual's further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification, an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in C polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting and sNP in a nucleic acid molecule; a method of detecting and sNP in a nucleic acid molecule; a method of detecting and sNP in a nucleic acid molecule; and sNP in a nucleic acid molecule; a method of detect
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-DEC-2002;
10-MAR-2003;
30-APR-2003;
23-SEP-2003;
                                                           method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity the nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing composition for treating or preventing myocardial infarction. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Myocardial infarction; cardiant; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention refere to a company myocardial infarction. The method has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of comprises detecting a single nucleotide polymorphism in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10; SEQ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human myocardial infarction-associated gene derived protein, SEQ ID 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-NOV-2004
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                                          represents the protein of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              standard; protein; 1267
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ; 2002US-0434778P.
; 2003US-0453135P.
; 2003US-0466412P.
; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              detection; single nucleotide polymorphism; SNP,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Iakoubova
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                      one or
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                 f a human myocardial infarction more SNP's of the invention.
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                                                                                                                                                               activity
                      Note:
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RESULT 21
ABU05243
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                    transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypurolectides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melan lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence representes the approach of the polypeptides.
expressed protein tag (EPT) isolated from human tissue for ty
profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly
                                                                                                                                                                                  The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription fac
                                                                                                                                                                                                                                                                                                     New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protease; protease inhibitor; transporter; cytoskeletal
receptor; transcription factor; cancer; MHC;
major histocompatability complex; myeloma; colon cancer
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              28-MAR-2001; 2001US-0279495P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             adenocarcinoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1267 AA;
                                                                                                                                                                                                                                                                           treating cancer, e.g. colon leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO200278524-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABU05243;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         an electronic sequence listing downloaded from the WIPO website
                                                                                                                                                                                                                                                                                                                                                                                                            (ZYCO-)
                                                                                                                                                                                                                                                                                                                                                   2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             332
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9; Conser
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                                                                                                                                                                                                                                                  SEQ ID
                                                                                                                                                                                                                                                                                                                                                                              Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                      ; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                               NO 1909; 134pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             340
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             melanoma; lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   expressed protein tag; EPT; kinase;
                                                                                                                                                                                                                                                                                                                                                                               Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>
                                                                                                                                                                                                                                                                                         cancer, gastric
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                                                                                                                                                                                                                                                                                                                                                                              RG
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                                                                                                                                                                                                                                               English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          lymphoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         colon cancer;
                                                                                                                                                                                                                                                                                         cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               8;
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            printed
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                            translational
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                                                                                                                                                                                                                                                                                           lymphoma
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fragment of a kinase, phosphatase, protease inhibitor, ctransporter, cytoakeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed constitution but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Translational profiling; expressed protesse; protesse inhibitor; transporter; cylprotesse; protesse inhibitor; transporter; cylprotestor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; comajor histocompatability complex; myeloma; comajor histocompatability complex; myeloma; complex; myeloma; complex; myeloma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a purified polypeptide, which comprises a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-040607/03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human expressed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABU05241;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABU05241 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    369
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1 ILYNNHKFT
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ILYNNHKFT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 1907; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%; Score 51; lilarity 100.0%; Pred. No. 1 Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       <u>₹</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed protein tag; EPT; kinase; phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (EPT) #1907.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DB 6;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .
5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cytoskeletal protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Indels
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RESULT 23
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fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed general printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MIC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                 New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                WO200278524-A2
                                                                                                                                                                                                                                                                     Example 2;
                                                                                                                                                                                                                                                                                                                                                                                WPI; 2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           20-FEB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ABU05244;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABU05244
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                 treating cancer, e.g. colon cancer, gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                            (ZYCO-) ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            adenocarcinoma; sarcoma; melanoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              369
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ILYNNHKET
                                                                                                                                                                                                                                                                     SEQ ID NO 1910; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                                               Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; 2001US-0279495P.
; 2001US-0252544P.
2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                              INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              377
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                                                                                                                                                                                                                                                                                                                                                                                                               Urban
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 51; DB (
Pred. No. 1.5;
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                               RG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        6,
                                                                                                                                                                                                                                                                                                                  cancer, sarcoma, lymphoma
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1304;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            0
                                                                                 melanoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Gaps
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                                                                                                                                                           to this
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RESULT 24
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                                            phosphatase (PTP) that is reversibly oxidized in a cell by: (i)

subjecting a sample, including a cell that contains at least one PTP, to

conditions that cause reversible oxidation of PTP; (ii) isolating PTP

conditions that cause reversible oxidation of PTP; (ii) isolating PTP

conditions that cause reversible oxidation of PTP; (ii) isolating PTP

conditions that cause of a sulfhydryl-reactive agent (II) that

conditions that caused by PTP, of an invariant Cys in the active

conditions, the level

conditions that an active PTP is present. No details

conditions to these activities are given. The method is used to identify

condity such PTP; or (b) alter inducible signalling pathways in which PTP

conditions, for treating abnormal cell proliferation or growth (cancer);

conditions, for treating abnormal cell proliferation or growth (cancer);

conditions, for treating abnormal cell proliferation or growth (cancer);

conditions, the details allergy or other

conditions that cause sucolumnume diseases; allergy or other

conditions that cause is metabolic disorders and cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Query Match
                                                                                                                                                                                                                                                                                                                                                                                                screening for special cancer or autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protein tyrosine phosphatase; reversible oxidation; dephosphorylation;
inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                  Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1304 AA;
                                immunosuppressed states; met abnormalities. This sequence
                                                                                                                                                                                                                                                                                                                                The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tonks NK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       13-FEB-2003; 2003WO-EP001446
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human protein tyrosine phosphatase #26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADL16230 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (CEPT-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   2003-712572/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           369
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          COLD SPRING HARBOR LAB CEPTYR INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 79; 238pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                                                               relates to a method for identifying a protein tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein; 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ø
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   <u>.</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 51;
Pred. No. 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DB
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RESULT 25
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                                                                                                                                                               genes for targeting in the treatment of rheumatoid arthritis in a mammal other than a mouse; diagnosis of rheumatoid arthritis in a mammal array or gene chip, specific for rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; screening the efficacy of a candidate drug in vitro for the treatment of collageninduced arthritis; and reducing the symptoms associated with collageninduced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, antigout, antiantlammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  autoimmune disease or arthritides. The method comprises obtaining a patient sample containing mRNA, analysing gene expression using the mRNA that results in a gene expression signature of the mRNA, and using that gene expression signature to diagnose or analyse the autoimmune disease or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention further comprises: a treatment of rheumatoid arthritis; identification of the genes of the genes is the same that it is a superior to the genes of the g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a autoimmune disease or arthritides. The method comprises obtaining a national state of the means analysing gene expression using the means analysing gene expression using the means are the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia
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                                                     diagnosing and treating autoimmune disease or arthritides, rheumatoid arthritis, lupus, ankylosing spondylitis, fibros
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Pred. No.
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RESULT 26
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This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, thypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and
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Matches 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
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polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer or for detecting the presence or absence of cancer cells in an individual, a method for inhibiting growth of cancer cells in an
                                                                                                                                                                                                   The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its conjetement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above-mentioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 control of the 35 contro
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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acide, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  individual, a method for delivering a therapeutic agent to cancer cells in an individual, an electronic library comprising the above polymucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bioactive agent capable of modulating
                                                                                                                                                                                                                                                                                                                                                            Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
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Pred. No. 1.5;
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RESULT 29
ADQ39375
ID ADQ39
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the Specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a CC nucleic acid molecule; a method of detecting a variant polypeptide; and a CC method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or CC composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Best
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
                                                                                                                                                                                                                                  20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                    Myocardial infarction; detection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human myocardial infarction-associated gene derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADQ39375 standard; protein; 1306 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 1304 AA;
                                                                                                                                                                             Cargill M,
                                                                                                                                                                                                                                                                                                        22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                     15-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                      cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADQ39375;
                                                                                                                                                                                                         (APPL-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Local
                                                                                                                                      2004-533949/51.
DB; ADQ38547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      369 ILYNNHKET 377
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 ILYNNHKFT
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The invention relates to a novel method for identifying an has an altered risk for developing myocardial infarction. Comprises detecting a single nucleotide polymorphism (SNP)

individual who

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Identifying an individual who has an myocardial infarction by detecting a the individual's nucleic acids.

altered risk for developing single nucleotide polymorphism in

N-PSDB;

Claim

10;

SEQ ID NO 1038; 145pp; English.

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CC the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least C the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC myocardial infarction. The novel detecting a variant polypeptide; and a mucleic acid molecule; a method of detecting are SNP in a nucleic acid molecule; a method of detecting are variant polypeptide; and a method for identifying an agent useful in treating or preventing CC method is useful in identifying an individual who has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from CC associated gene containing one or more SNP's of the invention. Note: This capture is a necessary of the invention of the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                           Query Match 100.0%; Score 51; DB 8; Length 1306; Best Local Similarity 100.0%; Pred. No. 1.5; Matches 9; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1306 AA;
371 ILYNNHKET 379
                                                           1 ILYNNHKFT 9
                                                                                                                                                                                                                 0; Gaps
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Search completed: May 3, 2005, 07:31:37 Job time: 54 secs

В S

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OM protein - protein search, using sw model
                                                                                     GenCore version 5.1.6 Copyright (c) 1993 - 2005 Compugen Ltd.
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Title: Perfect score: US-10-003-983C-11 51

May 3, 2005, 05:49:25; Search time 6.68919 Seconds (without alignments) 129.455 Million cell updates/sec

Run on:

Sequence: 1 ILYNNHKFT 9

Scoring table:

Searched: BLOSUM62 Gapop 10.0 , Gapext 0.5 283416 segs, 96216763 residues

Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0% Maximum Match 100% Listing first 45 summaries

PIR 79:*
1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*

Database :

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

29	28	27	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	տ	4.	w	2	μ	Result No.
3. 4.	34	34	34	34	34	34	34	34	35	35	35	35	35	35	35	35	35	36	36	36	36	36	37	37	38	39	39		Score
66.7	66.7	66.7	66.7	6	6	9	6	66.7	8	8	ω.	œ	8	œ		8	68.6		70.6	70.6	70.6	70.6	72.5	72.5	74.5	76.5	76.5		Query Match Length
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probable thiamin b	selenocysteine syn	L-seryl-tRNA(ser)		hypothetical prote			hypothetical prote		CDC48 like protein	hypothetical prote	probable anthranil	O antigen polymera	8	hypothetical prote	ABC 1		F5A9.10	C28A5.2	ucida	aspartate transami	aspartate aminotra	permease [imported		helicase (EC 3.6.1	BEM1 protein-bindi	fibronectin precur	fibronectin - bovi	ocyte common	Description

45	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
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64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	64.7	66.7	66.7	66.7	66.7	66.7	66.7	66.7
409	380	340	340	340	339	298	267	213	1483	1483	1480	1203	1198	. 684	606
N	Ŋ	N	N	N	N	N	N	N	N	N	N	N	N	N	ν
T31662	S34964	G72072	D86552	C81596	S33560	E90550	AG0947	B81360	T21912	T21914	T21911	C89217	T20262	H82296	T11060
hypothetical prote	rfc protein - Shig	ct391 hypothetical	CT391 hypothetical	conserved hypothet	hypothetical prote	conserved hypothet	probable DeoR-fami	probable protein d	hypothetical prote	hypothetical prote	hypothetical prote	protein C55A6.2 [i	hypothetical prote	c-di-GMP phosphodi	NADH2 dehydrogenas

ALIGNMENTS

A;ACCESSION: BZ949 A;Status: not compared with conceptual translation A;Molecule type: mRNA A;Molecule type: mRNA A;Residues: 32-192 <ra2> A;Experimental source: clone HLC-2 R;Tsal, A.Y.; Streuli, M.; Saito, H. Mol. Cell. Biol. 9, 4550-4555, 1999 A;Title: Integrity of the exon 6 sequence is essential for tissue-specific alterna A;Reference number: 157658; MUID:90066468; PMID:2531281 A;Accession: 157658 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: 146-192 <res></res></ra2>	A;Title: Structural variants of human T200 glycoprotein (leukocyte-common antigen). A;Reference number: A91066; MUID:87275816; PMID:2956090 A;Recession: A29449 A;Molecule type: mRNA A;Residues: 1-31.193-649,'L',651-869,'G',871-872,'A',874-1206,'P',1208-1304 <ral> A;Cross-references: GB:Y00062; NID:g34275; PIDN:CAA68269.1; PID:g34276 A;Experimental source: clones pHLC-1 and lambdaHLG1</ral>	A;Accession: C4546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-31,193-264 <st3> A;Cross-references: GB:Y00638 A;Experimental source: clone LCA.1 R;Ralph, S.J.; Thomas, M.L.; Morton, C.C.; Trowbridge, I.S. EMBO. 1 6 1251-1257 1987</st3>	A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-1304 <str> A;Cross-references: UNIPROT:P08575; GB:Y00638 A;Experimental source: clone LCA.6/2 A;Accession: B46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-32,99-564 <st2> A;Cross-references: GB:Y00638 A;Experimental source: clone LCA.111 and clone LCA.260</st2></str>	RESULT 1 A46546 leukocyte common antigen long splice form precursor - human N;Alternate names: CD45; protein-tyrosine-phosphatase, receptor type c; T200 glycoprote N;Contains: leukocyte common antigen intermediate splice form; leukocyte common antigen C;Species: Homo sapians (man) C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_change 09-Jul-2004 C;Accession: A46546; B46546; C46546; A29449; B29449; I57658 C;Accession: A46546; B46546; X29449; B29449; Saito, H. J: Exp. Med. 166, 1548-1566, 1987 A;Title: Differential usage of three exons generates at least five different mRNAs enco A;Reference number: A46546; MUID:88061067; PMID:2823653 A:Accession: A46546
alternative :	antigen). 4 <ral></ral>			T200 glycoprote e common antigen 2004 erent mRNAs enco

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aling, and maintenance of cell shape.

C;Comment: Plasma fibronectin is synthesized by hepatocytes.

C;Superfamily: fibronectin; fibronectin type I repeat homology; fibronectin type C;Keywords: acute phase; alternative splicing; collagen binding; duplication; ext F;21-241/Domain: fibrin and heparin binding <FBR>
F;21-56/Domain: fibronectin type I repeat homology <1F1>
F;66-104/Domain: fibronectin type I repeat homology <1F2>
F;110-148/Domain: fibronectin type I repeat homology <1F3>
F;155-194/Domain: fibronectin type I repeat homology <1F4>
F;200-239/Domain: fibronectin type I repeat homology <1F5>
F;277-577/Domain: collagen binding <CBR>
F;277-577/Domain: collagen binding <CBR>
F;277-577/Domain: collagen binding <CBR>
F;270-577/Domain: collagen binding <CBR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Molecule type: mRNA
A;Residues: 2170-2265 <KOR>
A;Residues: 2170-2265 <KOR>
A;Cross-references: GB:K00800; NID:g163055; PIDN:AAA30521.2; PID:g5713323
A;Cross-references: GB:K00800; NID:g163055; PIDN:AAA30521.2; PID:g5713323
R;Petersen, T.E.; Thogersen, H.C.; Skorstengaard, K.; Vibe-Pedersen, K.; Sahl, P.; Sottx
Proc. Natl. Acad. Sci. U.S.A. 80, 137-141, 1983
A;Title: Partial primary structure of bovine plasma fibronectin: three types of internal
A;Reference number: A23292; MUID:83117805; PMID:6218503
A;Accession: A23292
A;Residues: 1-16, 'C',18-20,'S',22-432;447-463;1367-1517;1567-1673;2062-2176,'N',2178-226
C;Comment: Cys-1201 and Cys-2015 have free sulfhydryl groups.
C;Comment: The plasma fibronectin molecule consists of two chains, which are connected b
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: GB:M29253; NID:g187020; PIDN:AAA59497.1; PID:g553521
C;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Genetics:
A;Gross-references: GDB:119768; OMIM:151460
A;Cross-references: GDB:119768; OMIM:151460
A;Map position: 1q31-1q32
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd C;Keywords: alternative splicing; glycoprotein; phosphoprotein homology <LAC>
F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;6575-899/Domain: protein-tyrosine-phosphatase homology <FTP>
F;851/Active site: Cys (phosphocysteine intermediate) #status predicted
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A;Residues: 1-2265 <SKO>
A;Cross-references: UNIFROT:P07589
A;Cross-references: UNIFROT:P07589
R;KOrnblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E.
Proc. Natl. Acad. Sci. U.S.A. 80, 3218-3222, 1983
A;Title: Isolation and characterization of cDNA clones for human
A;Reference number: A21165; MUID:83221567; PMID:6304699
A;Accession: B21165
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                                                                      F;578-661/Domain:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  밁
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277-311/Domain: fibronectin type I repeat homology <1F6>
;239-370/Domain: fibronectin type II repeat homology <2F1>
;389-430/Domain: fibronectin type II repeat homology <2F2-
;439-477/Domain: fibronectin type I repeat homology <1F7>
;487-524/Domain: fibronectin type I repeat homology <1F8>
;58-661/Domain: fibronectin type II repeat homology <FN3]
;578-661/Domain: fibronectin type III repeat homology <FN3]
;688-770/Domain: fibronectin type III repeat homology <FN3]
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;Species: 31-Dec-1988 #sequence revision 31-Dec-1988 #text_change 09-Jul-2004
;Accession: A26452; B21165; A23292
;Skorstengaard, K.; Jensen, M.S.; Sahl, P.; Petersen, T.E.; Magnusșon, S.;
it J. Biochem. 161, 441-453, 1986
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Best Local
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9; Conserv
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100.0%; Pred. No.
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           homology <FN3A>
homology <FN3B>
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fibronectin precursor (validated] - human N;Alternate names: fibronectin splice form ED-A C;Species: Homo sapiens (man) C;Species: Homo sapiens (man) C;Date: 27-Nov-1985 #sequence_revision 31-Mar-1993 #text_change 09-Jul-2004 C;Accession: A26460; A26584; S03917; A24854; A24476; A91008; A93529; A21011; R;Dean, D.C.; Bowlus, C.L.; Bourgeois, S. Proc. Natl. Acad. Sci. U.S.A. 84, 1876-1880, 1987 A;Title: Cloning and analysis of the promoter region of the human fibronectin A, Reference number: A26460; MUID:87175578; PMID:3031656 A;Accession: A26460.
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F;2130-2167/Domain: fibronectin type I repeat homology <1F11>
F;2130-2167/Domain: fibronectin type I repeat homology <1F11>
F;2174-2209/Domain: fibronectin type I repeat homology <1F12>
F;1/Modified site: pyrrolidone carboxylic acid (Gln) #status experimental
F;1/Cross-link: isopeptide (Gln) (interchain to Lys N6-amino of fibrin) #status experime
F;21-47,45-56,66-94,92-104,110-138,135-148,155-184,182-194,200-229,227-239,277-304,302-3
7,2155-2167,2174-2200,2198-2209/Disulfide bonds: #status predicted
F;399,497,511,846,976,1213,1987/Binding site: carbohydrate (Asn) (covalent) #status experimental
F;1943,1944/Binding site: carbohydrate (Asn) (covalent) #status experimental
F;1943,1944/Binding site: carbohydrate (Thr) (covalent) #status experimental
F;1943,1944/Binding site: carbohydrate (Thr) (covalent) #status experimental
F;1943,1944/Binding site: carbohydrate (Thr) (covalent) #status predicted
F;2256/Disulfide bonds: interchain (to 2250) #status predicted
F;2256/Disulfide bonds: interchain (to 2250) #status predicted
                                                                                                 R;Oldberg, A; Ruoslahti, E.
J. Biol. Chem. 261, 2113-2116, 1986
A;Title: Evolution of the fibronectin gene.
A;Reference number: A26284; MUID:86111901; PMID:3003095
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F;1600-1682/Domain:
F;1692-1773/Domain:
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                                                                                                                                                                                                                                                                             A; Molecule type: DNA
A; Residues: 1-49 < DEA>
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F;1510-1592/Domain:
A;Molecule type: DNA
A;Residues: 1447-1540 <OLD>
                                                                                                                                                                                                                                         A;Cross-references: UNIPROT:P02751; UNIPROT:Q14327; GB:M15801; NID:g182686; PIDN:AAA5337
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Best Local
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heparin binding <HB2>
fibronectin type III repeat homology <FN3L>
fibronectin type III repeat homology <FN3M>
fibronectin type III repeat homology <FN3M>
cell attachment (R-G-D) motif
fibronectin type III repeat homology <FN3O>
fibronectin type III repeat homology <FN3O>
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fibronectin type III repeat
cell attachment <CAD>
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75.0%;
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A;Cross-references: GB:M12549; NID:g182688
A;Note: the authors translated the codon TTC for residue 1494 as Glu
A;Note: the authors translated the codon TTC for residue 1494 as Glu
R;Paolella, G.; Henchcliffe, C.; Sebastio, G.; Baralle, F.E.
Nucleic Acids Res. 16, 3545-3557, 1988
Nucleic Acids Res. 16, 3545-3557, 1988
A;Title: Sequence analysis and in vivo expression show that alternative splicing
A;Reference number: S00848; MUID:88233940; PMID:3375063
A;Accession: S03917

of ED-B

A; Molecule type: DNA A; Residues: 1594-1767, 'V', 1769-1783 < PAO>

A; Cross-references:

EMBL:X07718;

8; NID:g31402 the codon AAC

for

residue 1631 as

Asp

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R;Sekiguchi, K.; Klos, A.M.; Kurachi, K.; Yoshitake, S.; Hakomori, S. Biochemistry 25, 4936-4941, 1986
A;Title: Human liver fibronectin complementary DNAs: identification of A;Reference number: I52394; MUID:87026578; PMID:3021206
A;Accession: I65273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Reference number: A22245; MUID:85231203; PMID:2989004
A;Accession: A22245
A;Moleonle tro- ----
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A;Residues: 1594-2386 - BER>
A;Cross-references: GB:M10905; NID:g182696; PIDN:AAA52462.1;
A;Cross-references: GB:M10905; NID:g182696; PIDN:AAA52462.1;
R;Umezawa, K.; Kornblihtt, A.R.; Baralle, F.E.
FEBS Lett. 186, 31-34, 1985
A;Title: Isolation and characterization of CDNA clones for hu
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A;Cross-references: GB.K0005; NID:g182680; PIDN:AAA52459.1; PID:g182683
R;Bernard, M.P.; Kolbe, M.; Weil, D.; Chu, M.L.
Biochemistry 24, 2698-2704, 1985
B;Title: Human cellular fibronectin: comparison of the carboxyl-terminal portion A;Reference number: A90495; MUID:85280409; PMID:2992573
A;Accession: A90495
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R;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle,
Nucleic Acids Res. 12, S853-5868, 1984
A;Title: Human fibronectin: cell specific alter
                                                                                                                        A; Molecule type: mRNA
A; Residues: 1978-1990, 2016-2018, 'N', 2020-2081, 2113-2127
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A;Cross-references: GB:X00739
A;Cross-references: GB:X00739
A;Cloberg, A.; Linney, E.; Ruoslahti, E.
J. Biol. Chem. 258, 10193-10196, 1983
J. Biol. Chem. 258, 10193-10196, 1983
A;Title: Molecular cloning and nucleotide sequence of a cDNA clone coding for the cell A;Reference number: A21011; MUID:83290929; PMID:6688418
A;Accession: A21011
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FEBS Lett. 207, 145-148, 1986
A;Tille: Human fibronectin is synthesized as a pre-propolypeptide.
A;Reference number: A24476; MUID:87030890; PMID:3770189
A;Accession: A24476
                           A;Cross-references: GB:M14060; NID:g182701; PIDN:AAA52464.1; R;Kornblihtt, A.R.; Vibe-Pedersen, K.; Baralle, F.E. Proc. Natl. Acad. Sci. U.S.A. 80, 3218-3222, 1983
                                                                                                                                                                                                                                                                                                                                                                                           A; Cross-references: GB:M27590
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A;Residues: 1-14,'Q',16-38 <GUT>
R;Kornblihtt, A.R.; Umezawa, K.; Vibe-Pedersen,
EMBO J. 4, 1755-1759, 1985
                                                                                                                                                                                                 A;Status: preliminary; translated from GB/EMBL/DDBJ
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A;Accession: B22245
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A;Residues: 1948-2067 <UME>
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A;Residues: 32-1344,1346-2080;2112-2386 <KOR>
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A;Title: Donor and acceptor splice signals within an exon A;Reference number: A24854; MUID:87030929; PMID:3770201
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A; Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Reference number: A93529; MUID:84272258; PMID:6462919; Recession: A93529
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ;Molecule type: DNA;Residues: 1992-2147 <VIB>
                                                                                                                                                                                                                                                                                                                                                                                                                                 Residues: 1975-1991;2017-2039 <UM2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ;Molecule type: mRNA
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Gutman, A.; Yamada, K.M.; Kornblihtt, A
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 K.; Magnusson,
characterization
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of cDNA clones for human and
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                                                                                             PID:g182704
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A/Map position: 2g34-2g34

A/Map position: 2g34-
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A; Residues: 293-301 <GRI>
R; Calaycay, J.; Pande, H.; Lee, T.; Borsi, L.; Siri, A.;
J. Biol. Chem. 260, 12136-12141, 1985
A; Title: Primary structure of a DNA- and heparin-binding
                                                                                                                                                                                                                                                                                                                                                                                                                   A;Molecule type: protein
A;Residues: 2071-2080;2112-2356 <GAR4>
C;Comment: The extra domain and connecting strand 3
C;Comment: The cellular and plasma fibronectins are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Molecule type: protein
A;Residues: 1614-1630, 'T',1722-2081,2113-2244,
R;Garcia-Pardo, A.; PearIstein, E.; Frangione,
G;Garcia-Pardo, A.; PearIstein, E.; Brangione,
J. Biol. Chem. 260, 10320-10325, 1985
A;Title: Primary structure of human plasma fib:
A;Reference number: A23891; MUID:85261459; PMII
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Biochem. J. 274, 731-738, 1991
Biochem. J. 274, 731-738, 1991
A;Title: Human plasma fibronectin. Demonstration of structural
A;Reference number: S14357; MUID:91190085; PMID:2012601
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Biochem J. 241, 923-928, 1987
A;Title: Primary structure of human plasma
A;Reference number: A32517; MUID:87241275;
A;Accession: A32517
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A;Residues: 291-300;551-560 <GAR2>
A;Residues: 291-300;551-560 <GAR2>
R;Griffin, C.A.; Calaycay, J.; Shively, J.E.; Smith, R.L.
Thromb. Res. 43, 469-477, 1986
A;Title: Two plasma fibronectin fragments with different gelatin-binding properties.
A;Reference number: A60904; MUID:87019725; PMID:3532418
A;Accession: A60904
                                                                                                                                                                                                                                                       A; Cross-references:
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A;Residues: 1589-1630,'T',1722-2058 <GAR3>
R;Tressel, T.; McCarthy, J.B.; Calaycay, J.; Lee, T.D.; Legesse, K.; Shively, J.E.;
Biochem. J. 274, 731-738, 1991
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R; Garcia-Pardo, A.; Rostagno,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A;Note: residues 1524-1527 are
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A; Residues: 1441-1548 < PIE>
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A; Title: The cell attachment domain of fibronectin. Determination of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A;Molecule type: protein
A;Residues: 616-677,'Q',679-703,'PT' <CAL>
R;Plerschbacher, M.D.; Ruoslahti, E.; Sundelin,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Reference number: A23901; MUID:86008277; A;Accession: A23901
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A;Accession: S34791
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Arch. Biochem. Biophys. 304, 181-188, 1993
A;Title: Further characterization of the binding of fibronectin to gelatin reveals the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Accession: A21165
A;Molecule type: mRNA
A;Residues: 2291-2386 <KO3>
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A;Residues: 32-47,'C',49-51,'S',53-72,'A',74-290 <GAR1>
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J. Biol. Chem. 258, 12670-12674, 1983
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R;Garcia-Pardo, A.; Pearlstein, E.; Frangione, B.
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PMID:3593230
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PMID:4019516
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PMID:6630202
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BEM1 protein-binding protein BOB1 - yeast (Saccharomyces N;Alternate names: protein YBL0117; protein YBL085w C;Species: Saccharomyces cerevisiae C;Date: 09-Aug-1904 "
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F;331-270/Jomain: fibronectin type I repeat homology <1F6>
F;308-401/Jomain: fibronectin type I repeat homology <2F1>
F;360-401/Jomain: fibronectin type II repeat homology <2F2>
F;420-461/Jomain: fibronectin type II repeat homology <2F2>
F;470-508/Jomain: fibronectin type I repeat homology <1F7>
F;518-555/Jomain: fibronectin type I repeat homology <1F8>
F;561-599/Jomain: fibronectin type I repeat homology <1F9>
F;609-692/Jomain: fibronectin type II repeat homology <3FA>
                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: DNA
A;Residues: 1-980 <OBS>
A;Residues: 1-980 <OBS>
A;Cross-references: EMBL:X79489; NID:g496661; PIDN:CAA56021.1; PID:g496694
A;Cross-references: EMBL:X79489; NID:g496661; PIDN:CAA56021.1; PID:g496694
R;Domdey, H.; Gassenhuber, H.; Obermaler, B.; Piravandi, E.
submitted to the Protein Sequence Database, August 1994
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F;719-801/Domain: fibronectin type III repeat homology <3FB>
F;810-891/Domain: fibronectin type III repeat homology <3FC>
F;810-891/Domain: fibronectin type III repeat homology <3FC>
F;906-988/Domain: fibronectin type III repeat homology <3FB>
F;906-1077/Domain: fibronectin type III repeat homology <3FB>
F;1086-1164/Domain: fibronectin type III repeat homology <3FG>
F;1173-1258/Domain: fibronectin type III repeat homology <3FG>
F;1266-1349/Domain: fibronectin type III repeat homology <3FH>
                                                                                                                                                                                                              A;Residues: 1-980 <DOM>
A;Cross-references: EMBL:Z35846; NID:g536137;
R;Obermaier, B.; Gassenhuber, J.; Piravandi, E
Yeast 11, 1103-1112, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Residues: 1-980 <BEN>
A;Cross-references: UNIPROT:P38041; EMBL:L31406; NID:g829041;
R;Obermaier, B.; Gassenhuber, J.; Piravandi, E.; Domdey, H.
submitted to the EMBL Data Library, May 1994
A;Description: Sequence analysis of a 78,6 kb segment of the l
A;Cross-references: EMBL:X79489; NID:g496661; PIDN:CAA56021.1; PID:g496694
                             A; Molecule type:
A; Residues: 1-98
                                                                                        A;Title: Sequence analysis of a 78.6 kb segment of the left A;Reference number: S59184; MUID:96076635; PMID:7502586 A;Accession: S59218 A;Status: nucleic acid sequence not shown; translation not s
                                                                                                                                                                                                                                                                                                                                                                               A; Reference number: S45816
A; Accession: S45826
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A; Accession: S45421
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submitted to the EMBL Data Library, April 1994
A;Description: Yeast Bobly (Bemlp-binding protein)
A;Reference number: S45444
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Date: 09-Aug-1994 #sequence_revision 09-Sep-1994
Accession: S45444; S45421; S45826; S59218
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75.0%;
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Pred. No. 79;
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                                                                                                                                                                                                                                                   ; PIDN:CAA84906.1; PID:g536138; GSPDB:GN0000 E.; Domdey, H.
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DNA helicase P143 orf95 - Bombyx mori nuclear polyhedrosis virus (isolate T3) C.Species: Bombyx mori nuclear polyhedrosis virus, BmSNPV A;Variety: isolate T3
C.Jate: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004 C.Accession: T41835
A;Status: preliminary; translated from A;Molecule type: DNA A;Residues: 1-1222 <KAM> A;Experimental source: isolate T3 A;Experimental source: isolate T3
                                                                                                                  C;Accession: T41835

R;Gomi, S.; Majima, K.; Maeda, S.
J. Gen. Virol. 80, 1323-1337, 1999

A;Title: Sequence analysis of the genome of Bombyx mori nucleopolyhedrovirus.
A;Reference number: Z22020; MUID:99281911; PMID:10355780

A;Accession: T41835
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Gene: Ac-helicase
C;Superfamily: AcMNPV helicase
C;Keywords: ATP; DNA binding; DNA repair; DNA replication; hydrolase;
F;917-924/Region: nucleotide-binding motif A (P-loop)
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A;Molecule type: DNA
A;Molecule type: DNA
A;Residues: 1-125,'F',127-1148,'F',1150-1221 <AYR>
A;Cross-references: GB:L22858; NID:g510708; PIDN:AAA66725.1; PID:g559164
C;Genetics:
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A; Residues: 1-1221 < iUA>
A; Residues: UNIPROT: P24307; EMBL: M57687
A; Cross-references: UNIPROT: P24307; EMBL: M57687
R; Ayres, M.D.; Howard, S.C.; Kuzio, J.; Lopez-Ferber, M.; Pos-
Virology 202, 586-605, 1994
A; Title: The complete DNA sequence of Autographa californica
A; Reference number: A72850; MUID: 94303173; PMID: 8030224
A; Accession: H72861
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A;Title: Nucleotide sequence of a gene essential for viral DNA replication in the baculo
A;Reference number: A38499; MUID:91134998; PMID:1994581
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          helicase (BC 3.6.1.-) - Autographa californica nuclear polyhedrosis virus C;Species: Autographa californica nuclear polyhedrosis virus, AcMNPV C;Date: 31-Dec-1991 #sequence_revision 31-Dec-1991 #text_change 09-Jul-200 [C;Accession: A38499; H72861]
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C; Superfamily: BEM1
F; 20-72/Domain: SH3
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C;Genetics:
A;Gene: SGD:BOIl; BOBl; MIPS:YBL085w
A;Cross-references: MIPS:YBL085w; SGD:S0000181
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Best Local
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homology <SH3>
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75.0%;
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Pred. No.
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Pred. No.
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?; Mismatches
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                           EMBL:L33180; NID:g3745835; PIDN:AAC63764.1; PID:g374
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47;
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RESULT
F98046
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F95179
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A;Title: The complete genome sequence of the lactic acid bacterium Lactococcus A;Reference number: A86625; MUID:21235186; PMID:11337471
A;Accession: G86851
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                                                                                                                                                                                                                                                                                                                                                                                   A;Authors: Loftus, B.J.; Yang, F.; Smith, H.O.; Venter, J.C.; Dougherty, B.A.; Morrison A;Title: Complete Genome Sequence of a virulent isolate of Streptococcus pneumoniae. A;Reference number: A95000; MUID:21357209; PMID:11463916
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A; Residues: 1-395 < KUR>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  aspartate aminotransferase [imported] - Streptococcus pneumoniae (strain TIGR4)
C;Species: Streptococcus pneumoniae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Gene: ysiB
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                                                                                                                                                                                                                                                                                                                                             A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                  A;Reference number: A95000;
A;Accession: F95179
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A; Residues: 1-371 <STO>
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                                                                                                                                                                                                                                                                                       ;Cross-references: UNIPROT:Q97PQ9; GB:AE005672; PIDN:AAK75631.1; PID:g14973033; GSPDB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ;Date: 03-Aug-2001 #sequence_revision 03-Aug-2001 #text_change 09-Jul-2004
;Accession: F95179
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ;Status: preliminary
                                                                                                                                                                                                                    ;Superfamily: aspartate transaminase
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Best Local
                                                                                                                                                               Query Match
Best Local
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                                                                                                           1 ILYNNHKFT 9
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                                                                      LVYNGHEFT 217
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                                                                                                                                                             70.6%;
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                                                                                                                                                                                                                                                                          TIGR4
                                                                                                                                                             Score 36; DB
Pred. No. 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
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                                                                                                                                               Mismatches
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Radune, D.; Holtzapple,
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RESULT 11 A88429

A;Accession: A88429 A;Status: preliminary

;Molecule type: DNA ;Residues: 1-1218 <STO> A;Note: see websites genome.wustl.edu/gsc/C_elegans/ and www_sanger.ac.uk/Projects/C_el. A;Note: published_errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and

elegans: a platform

for

investigating biolo

#text_change 09-Jul-2004

A; Reference number: A75000; MUID: 99069613; PMID: 9851916

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C;Superrum:
F;370-630/Domain:
                                                                                                                                                                                                                                                                                           RyHarris, J.D.; Hibler, p.m., .....
RyHarris, J.D.; Hibler, p.m., .....
DNA Seq. 4, 361-393, 1994
A, Title: Cloning and characterization of zona pellucida
A, Title: Cloning and characterization of zona pellucida
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                                                                                                                                                A;Residues: 1-716 <HAR>
A;Residues: 1-716 <HAR>
A;Residues: 1-716 <HAR>
A;Cross-references: UNIPROT:P47984; EMBL:U05776; NID:g458268; PIDN:AAA74388.1; PID:g458
C;Superfamily: sperm-binding glycoprotein ZP2; ZP domain homology
F;370-630/Domain: ZP domain homology <ZPH>
                                                                                                                                                                                                                                                                                                                                                                                                                    zona pellucida glycoprotein A - cat
C;Species: Felis silvestris catus (domestic cat)
C;Date: 28-Oct-1996 #sequence_revision 27-Feb-1997 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  R;Hoskins, J.A.; Alborn Jr., W.; Arnold, J.; Blaszczak, L.; Burgett, & e, R.; LeBlanc, D.J.; Lee, L.N.; Lefkowitz, E.J.; Lu, J.; Matsushima, Y. P.; Sun, P.M.; Winkler, M.E.
J. Bacteriol. 183, 5709-5717, 2001
J. Bacteriol. 183, 5709-5717, 2001
A;Authors: Yang, Y.; Young-Bellido, M.; Zhao, G.; Zook, C.; Baltz, R.F. A;Title: Genome of the Bacterium Streptococcus pneumoniae Strain R6.
A;Reference number: A97872; MUID:21429245; PMID:11544234
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C; Keywords:
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A;Molecule type: mRNA
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A; Residues: 1-395 < KUR>
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  208
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                                     1 ILYNNHKFT
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ILFDNHKIT 216
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Pred. No. 43;
3; Mismatches
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                                                                                                                      Score 36;
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C-125)

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A; Molecule type: DNA
A; Residues: 1-216 <ST(
A; Cross-references: UI
A; Accession: C86380
                                                                                   C;Accession: H86380; C86380
R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alons Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, K ansen, N.F.; Hughes, B.; Huizar, L. Rature 408, 816-820, 2000
A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.A.; Li, J.H.; Li, Y.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marzial Rizzo, M.; Rooney, T.; Rowley, D.; Sakano, H.
A;Authors: Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallon ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A;Reference number: A86141; MUID:21016719; PMID:11130712
A;Accession: H86380
A;Status: preliminary
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A;Gene: C28A5.2
A;Map position: 3
C;Superfamily: Caenorhabditis elegans C28A5.1 protein (clone C28A5)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Theologis, A.; Ecker, J.R.; Palm, C.J.; Federspiel, N.A.; Kaul, S.; White, O.; Alons Chin, C.W.; Chung, M.K.; Conn, L.; Conway, A.B.; Conway, A.R.; Creasy, T.H.; Dewar, I ansen, N.F.; Hughes, B.; Huizar, L.
Nature 408, 816-6820, 2000
A;Authors: Hunter, J.L.; Jenkins, J.; Johnson-Hopson, C.; Khan, S.; Khaykin, E.; Kim, C.A.; Li, J.H.; Li, Y.; Lin, X.; Liu, S.X.; Liu, Z.A.; Luros, J.S.; Maiti, R.; Marzial Rizzo, M.; Rooney, T.; Rowley, D.; Salzberg, S.L.; Schwartz, J.R.; Shinn, P.; Southwick, A.M.; Sun, H.; Tallor ker, M.; Wu, D.; Yu, G.; Fraser, C.M.; Venter, J.C.; Davis, R.W.
A;Title: Sequence and analysis of chromosome 1 of the plant Arabidopsis.
                                                                                                                                                                                                                                                                                                                                                                                                protein F5A9.6 [imported] - Arabidopsis thaliana C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 02-Mar-2001 #sequence_revision 02-Mar-2001 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Cross-references: UNIPROT:Q9FXK6; GB:AE005172; NID:g9945074; PIDN:AAG03111.1; GSPDB:GN
C;Genetics:
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A; Residues: 1-149 <STO>
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A;Accession: F86380
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                       Cross-references: UNIPROT:Q9FEF7; GB:AE005172; NID:g9945072; PIDN:AAG03109.1; GSPDB:GN
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Arabidopsis thaliana (mouse-ear cress)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 44 ILYNNH 49
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6; Conserv
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                                              1-216 <STO>
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Conservative
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Pred. No.
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Pred. No.
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ewar, K.;
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R;Douglas, S.; Zauner, S.; Fraunholz, M.; Beaton, M.; Penny, S.;
Nature 410, 1091-1096, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    hypothetical protein orf313 [imported] - Guillardia theta nucleomorph C;Species: nucleomorph Guillardia theta C;Species: nucleomorph is the vestigial nucleus of a eukaryotic endosymbiont A;Note: a nucleomorph is the vestigial nucleus of a eukaryotic endosymbiont C;Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 09-Jul-2004
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A84041
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A;Molecule type: DNA
A;Residues: 1-216 <ST2>
A;Cross-references: GB:AE005172; NID:g9945078; PIDN:AAG03115.1; GSPDB:GN00141
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                                                                                                                                       A; Genome: nucleomorph
C; Keywords: nucleomorp
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A; Residues: 1-313 < DOU>
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A; Residues: 1-287 <STO>
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A; Reference number: A83650;
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A;Gene: F5A9.6;
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1; Mismatches
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Search completed: May 3, 2005, 06:16:51 Job time : 31.6892 secs

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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to hav score greater than or equal to the score of the result being and is derived by analysis of the total score distribution.

SUMMARIES

				25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7	6	σ	4	w	2	1	No.	Result
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ALIGNMENTS

A;Cross-references: GB:M10072; GB:M81859; NID:9205140; PIDN:AAA41513.1; PID:9205143 A;Note: the translation in GenBank entry RATLCA1, release 113.0, begins at non-intitiate	chromatid c etical prote
A; MOLECULE CYPE: MKNA A; Residues: 187-189,'K',191-192,'K',208-1273 <tho></tho>	n-tyrosine-p
A;Reterence number: A02247; MUID:85201691; PMID:3158393 A;Accession: A02247	n-tyrosine-p n T23J18.11
A; Title: Evidence from cDNA clones that the rat leukocyte-common antigen (T200) spans ti	n-tyrosine-p
R;Thomas, M.L.; Barclay, A.N.; Gagnon, J.; Williams, A.F. Cell 41, 83-93, 1985	n-tyrosine-p
A, Residues: 30-161 <bar5></bar5>	n tyrosine p
A:Status: not compared with conceptual translation A:Molecule type: DNA	n-tyrosine-p
A;Accession: A60241	n-tyrosine-p
A;Title: The Leukocyte-common antigen (L-CA) Lamily. A;Reference number: A60241; MUID:89319817; PMID:2978200	n-tyrosine-p etical prote
Adv. Exp. Med. Biol. 237, 3-7, 1988	n-tyrosine-p
A;Note: the sequence in GenBank entry KATUCALV, release 113.0, has the codon AGG for bords R;Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, A.F.	n-tyrosine-p n-tyrosine-p
	n-tyrosine-p
A, KEDALULES: 20-240 KARATA A, KETALULES (2016) (BB A,	n-tyrosine-p
A; Molecule type: mRNA	n-tyrosine-p
A, Accession: D29450	n tyrosine p
A: LOBB-reterences: GB: M20042; GB: M2011; M1D: 94012; FIDN: MAMM1220.1; FID: 9403130; GB A: EXCerimental source: spilice form 3	n-tyrosine-p
A; Residues: 20-30, 73-121, 163-218 & ABR3>	le protein-t
A; Molecule type: mRNA	rte common a
A; Accession: C29450	n-tyrosine-p
A; LIDBS LELECTERES DE: M25041; DE: M24011; NID: 9403133; FIDM: AAAM11313-1; FID: 9403130; OB A; EXDEYÎMENÎTA] BOUYCE: BDÎÎÇE ÎÇIM 2	vte common a
A; Regidues: 19-30, 122-218 <barz></barz>	ption
A; Molecule type: mRNA	•
A;Accession: B29450	
A;EASPELIMENTAL BOULCE: BUILCE LOUI 1 A:NOTE: the translation in GenBank entry RATLCAI. PIDN:AAA41518.1. PID:g205154. release	
A;Cross-references: UNIPROT:Q64224; GB:MZ5820; GB:M24611; NID:g205153; GB:Y00065; GB:K0	
-218 <bar1></bar1>	g printed,
A;ACCESSION: AZ945U A;MOJecula type: mRNA A:MOJecula type: mRNA	ave a
A;Reference number: A91067; MUID:87275817; PMID:2440674	
EMBO J. 6, 1259-1264, 1987	
R Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, A.F.	
C;UATE: V4-DEC-1986 #BEQUENCE TEVISION V5-MAY-2000 #TEXT CHAIGE V5-DUI-2004 C.Accession. A29450. M29450. C29450. D29450. A60241. A02247. IF34569. AA5854	
C; Species: Rattus norvegicus (Norway rat)	
N;Contains: leukocyte common antigen precursor, splice form 1; leukocyte common antigen	
leukocyte common antigen precursor, splice form 4 - rat N;Alternate names: CD45; L-CA; Ly-5; T200	
RESULT 1 TDRTLT	
ALIGNMENTS	

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R;Yi, T.;
Blood 78,
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Proc. Natl. Acad. Sci. U.S.A. 83, 6940-6944, I.98
A;Title: Sequences of Ly-5 cDNA: isoform-related diversity of Ly-5 mRNA.
A;Reference number: A29381; MUID:86313686; PMID:2944116
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A; Title: Identification of novel protein tyrosine phosphatases of hematopoietic cells
                                                                                                                                                                                                                                                                                                                                                                                         R;Thomas, M.L.; Reynolds, P.J.; Chain, A.; Ben-Neriah, Y.; Trowbridge, I.S. Proc. Natl.. Acad. Sci. U.S.A. 84, 5360-5363, 1987
A;Title: B-cell variant of mouse T200 (Ly-5): evidence for alternative mRNA splicing. A;Reference number: A28334; MUID:87260986; PMID:2955416
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protein-tyrosine-phosphatase (EC 3.1.3.48) Ly-5 precursor (B-cell variant) N;Alternate names: 200K leukocyte common antigen; B220; CD45; Ly-5 (B-cell N;Contains: protein-tyrosine-phosphatase (T-cell variant)
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A; Residues: 1-1291 <THO>
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A;Residues: 1-30,163-180 <MCC>
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Immunology 76, 310-317, 1992
A;Tille: Expression of soluble isoforms of rat CD45. Analysis
A;Reference number: I54569; MUID:92340120; PMID:1378817
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                Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004; Accession: A28334; A29381; A61180; A60933; A33522; A29075; I54450; A28335; Thomas, M.L.; Reynolds, P.J.; Chain, A.; Ben-Neriah, Y.; Trowbridge, I.S.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          646-870/Domain: protein-tyrosine-phosphatase homology <PTP>
162,142,153,164,178,200,245,271,282,327,371,374,502/Binding site: carbohydrate  
1822/Active site: Cys (phosphocysteine intermediate) #status predicted  
1828/Binding site: substrate phosphate (Arg) #status predicted  
1828/Binding site: substrate phosphate (Arg) #status predicted
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                                                                                                                                                            Accession: A29381
                                                                                                                                                                                                                                                                                                                                                                      Accession: A28334
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Species: Mus musculus (house mouse)
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9; Conserv
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0; Mismatches
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R;Shen, F.W.; Saga, Y.; Litman, G.; Freeman, G.; 1
Proc. Natl. Acad. Sci. U.S.A. 82, 7360-7363, 1985
A;Reference number: A23329; MUID:86042665; PMID:38
A;Accession: A23329
A;Molecule type: mRNA
A;Residues: 10-30,170-263 <SHE>
A;Cross_Transferences.
F;565-586/Domain: transmembrane #status predicted <TMM>F;583-1223/Domain: leukocyte common antigen cytosolic de F;587-1291/Domain: intracellular #status predicted <INT:
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C;Genetics:
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R; Saga, Y.; Tung, J.
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R;Gonez, L.J.;
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A; Residues: 'MT', 1-2
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                                                                                                                                                                                                                                                                                                                                                                                                                                            Mol. Cell. Biol. 8, 4889-4895, 1988
A;Title: Organization of the Ly-5 G
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A; Residues: 961-1291 < RAS>
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A; Residues: 1-22 < JOH>
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A; Residues: 1-30,74-226 <SA2>
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A;Residues: 32-73 <RES>
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Immunogenetics 25, 263-266, 1987
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A;Gene: Ly-5
(;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Superfamily: leukocyte splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-1291/Product: protein-tyrosine-phosphatase (B-cell variant) #status predicted <MAT:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:M23241; NID:g340850; PIDN:AAA39460. R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A. R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A. Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987 A;Title: Alternative use of 5' exons in the specification A;Reference number: A28335; MUID:87260987; PMID:3037546
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A;Status: preliminary; translated from GB/EMBL/DDBJ
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Proc. Natl. Acad. Sci. U.S.A. 84, 161-165, 1987
A;Title: Cloned murine T200 (Ly-5) cDNA reveals multiple transcripts within A;Reference number: A29075; MUID:87092355; PMID:2948186
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A;Accession: A60933
A;Molecule type: protein
A;Residues: 'R',289-298;329,'V',331-336,'Y';'R',364-370,'X',372-375;595-608;638-649;669-A;Residues: 'R',289-298;329,'V',331-336,'Y';'R',364-370,'X',372-375;595-608;638-649;669-A;Johnson, N.A.; Meyer, C.M.; Pingel, J.T.; Thomas, M.L.
J. Biol. Chem. 264, 6220-6229, 1989
A;Title: Sequence conservation in potential regulatory regions of the mouse and human le A;Reference number: A33522; MUID:89197920; PMID:2522930
A;Accession: A33522
A;Status: preliminary
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A;Status: not compared with conceptual translation
                                                                         F;24-30,170-1291/Product: protein-tyrosine-phosphatase (T-cell variant) #status predict
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homology <LAC
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A.X.; Streuli, M.; Saito, H.
Mol. Cell. Biol. 9, 4550-4555, 1989
A, Title: Integrity of the exon 6 sequence is essential for tissue-specific alternative
A, Reference number: 157658; MUID:90066468; PMID:2531281
A, Accession: 157658
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                                                                                                                                                                                 A;Molecule type: DNA
A;Residues: 146-192 <RES>
A;Cross-references: GB:M29253; NID:g187020;
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A;Residues: 1-31,193-649,'L',651-869,'G',871-872,'A',874-1206,'P',1208-1304 <RAL>
A;Cross-references: GB:Y00062; NID:g34275; PIDN:CAA68269.1; PID:g34276
A;Experimental source: clones pHLC-1 and lambdaHLG1
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A;Molecule type: mRNA
A;Residues: 1-31,193-264 <ST3>
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A;Residues: 1-32,99-264 <ST2>
A;Cross-references: GB:Y00638
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A; Residues: 1-1304 <STR>
A; Cross-references: UNIPROT: P08575; GB:Y00638
A; Experimental source: clone LCA.6/2
A; Accession: B46546
A; Accession: B46546
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F;64,150,161,207,211,218,253,258,290,311,322,347,416,427,457,489,520,556/Binding
F;840/Active site: Cys (phosphocysteine intermediate) #status predicted
F;846/Binding site: substrate phosphate (Arg) #status predicted
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A; Residues: 32-192 < RA2>
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A;Accession: C46546
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                                                                                                                                                                                                                                                                     A;Status: preliminary; translated from GB/EMBL/DDBJ
;Map position: 1q31-1q32;
Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homo:
;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homo:
                                                                                                     ;Gene: GDB:PTPRC; CD45;Cross-references: GDB:119768; OMIM:151460
                                                                                                                                                                  Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Status: not compared with conceptual
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
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Pred. No. 0.37;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and clone
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C.C.; Trowbridge,
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PMID:2956090
                                                                                                                                                                                            PIDN: AAA59497.1;
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Query Match

90.0%;

Score 45;

BB

2;

Length 1200;

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A;Status: preliminary; translated from GB/EMBL/DDBJ
A;Molecule type: mRNA
A;Mosidues: 1-1200 <OKU>
A;Residues: 1-1200 <OKU>
A;Cross-references: UNIPROT:Q91054; EMBL:U34750; NID:g1304393; PID:g1335805; PIDN:AAB010
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homo
C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphata:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Lightning, J.
submitted to the EMBL Data Library,
A;Reference number: Z19950
                                                                                                                                                       R;Okumura, M.; Matthews, R.J.; Robb, submitted to the EMBL Data Library, A;Reference number: Z22317
                                                                                                                                                                                                                                                                 probable protein-tyrosine-phosphatase (EC 3.1.3.48) N;Alternate names: CD45 homolog C;Species: Heterodontus francisci (horn shark)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Map position: 2
A;Introns: 9/2; 25/1; 63/3; 89/3; 119/3; 165/3; 259/2; 316/3; 355/3; 389/1; 413/3; 459/
C;Superfamily: protein-tyrosine-phosphatase, receptor type alpha; leukocyte common anti
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           F;675-899/Domain: protein-tyrosine-phosphatase homology <PTP>F;851/Active site: Cys (phosphocysteine intermediate) #status pF;857/Binding site: substrate phosphate (Arg) #status predicted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C; Superfamily: protein-tyrosine-phosphatase C; Keywords: phosphoric monoester hydrolase
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A;Cross-references: UNIPROT:Q21527;
A;Experimental source: clone M05D6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  submitted to the EMBL Data Library, A;Reference number: Z19791
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A; Molecule type: DNA
A; Residues: 1-711 <WI2>
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A; Residues: 1-711 < W
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               October 1995
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                                                                                                                                                                                                   B.; Bork, P.;
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1.1;
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                                                                                                                                                                                                       Thomas,
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RESULT 8
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A;Residues: 1-1237 <FRAN>
A;Residues: 1-1237 <FRAN>
A;Residues: 1-1237 <FRAN>
A;COOSE-references: UNITROT:(991976; EMBL:Z21960; NID:g510510; PIDN:CAA79972.1; PID:g5105
A;Cross-references: UNITROT:(991976; leukocyte common antigen cytosolic domain homol
C;Superfamily: leukocyte common antigen; leukocyte cytosolic domain homology <LAC>
E;528-1170/Domain: protein-tyrosine-phosphatase homology <FTP>
F;786/Active site: Cys (phosphocysteine intermediate) #status predicted
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C;Date: 02-Aug-1994 #sequence revision 02-Aug-1994 #text_change 09-Jul-2004
C;Accession: A54080; ISO592
R;Fang, K.S.; Barker, K.; Sudol, M.; Hanafusa, H.
J. Biol. Chem. 269, 14056-14063, 1994
A;Title: A transmembrane protein-tyrosine phosphatase contains spectrin-like repeats A;Reference number: A54080; MUID:94245724; PMID:8188686
A;Accession: A54080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            R;Okubo, K., and Aida, K.
Biochem. Biophys. Res. Commun. 312, 531-536, 2003
Biothem. Gomadotro. Res. Commun. 312, 531-536, 2003
A;Title: Gonadotroppin-releasing hormone gene products downregulate the expression of the A;Reference number: JC8051; PMID: 14680798
protein-tyrosine-phosphatase (BC 3.1.3.48), receptor type epsilon precursor - mouse
N;Alternate names: phosphotyrosine phosphatase; protein-tyrosine-phosphate phosphohydrol
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A;Experimental source: (Brain)
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A; Residues: 1-680 < OKU>
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C;Accession: JC8052
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C;Species: Oryzias latipes (Japanese medaka)
C;Date: 09-May-2004 #sequence_revision 09-May-2004 #text_change 09-May-2004
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                                                                                                                                                                                                                                                                                                                                                                                                             ifying potassium channel.
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Matches
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8; Conserv
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8; Conserv
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                                                                                                                                                                                                                                                                  88.0%;
77.8%;
                                                                                                                                                                                                                                            2;
                                                                                                                                                                                                                                                                  Score 44; DB 2;
Pred. No. 2.4;
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                     protein tyrosine
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                                                                                                                                                                                                                                                                                           Length 680;
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                                                                                                                                                                                                                                            Indels
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C;Species: Mus musculus (house mouse)
C;Date: 16-Apr-1997 #sequence_revision 09-May-1997 #text_change 09-Jul-2004
C;Accession: JC6132
R;Schmidt, A.; Rutledge, S.J.; Endo, N.; Opas, E.E.; Tanaka, H.; Wesolowski, G.; Leu, C.
Proc. Natl. Acad. Sci. U.S.A. 93, 3068-3073, 1996
A;Title: Protein-tyrosine phosphatas are gulates osteoclast formation and functi
A;Reference number: JC6132; MUID:96181534; PMID:8610169
A;Contents: Done marrow cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: GDB:131385; OMIM:600926
A;Map position: 10q26-10q26
C;Function:
C;Function:
A;Description: catalyzes the hydrolysis of peptidyl-phosphotyrosine to release phosphate
A;Description: catalyzes the hydrolysis of peptidyl-phosphotyrosine to release phosphate
C;Superfamily: protein-tyrosine-phosphatase, receptor type alpha; leukocyte common antig
C;Superfamily: protein; phosphoric monoester hydrolase, receptor; transmembrane prot
C;Keywords: phosphoprotein; phosphoric monoester hydrolase, receptor; transmembrane prot
C;Keywords: phosphoric monoester hydrolase, receptor; transmembrane phosphoric
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C;Superfamily: protein-tyrosine-phosphatase, receptor type alpha; leukocyte
C;Superfamily: phosphoprotein; phosphoric monoester hydrolase; transmembrane pr
C;Keywords: phosphoprotein; phosphoric monoester hydrolase; transmembrane pr
F;77-697/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;158-382/Domain: protein-tyrosine-phosphatase homology <PTP1>
F;158-382/Domain: protein-tyrosine-phosphatase homology <PTP1>
F;334/Active site: Cys (phosphocysteine intermediate) #status predicted
F;340/Binding site: Substrate phosphate (Arg) #status predicted
F;639/Active site: Cys (phosphocysteine intermediate) #status predicted
F;635/Binding site: substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                        F;159-383/Domain: protein-tyrosine-phosphatase homology <PTP1>
F;335/Active site: Cys (phosphocysteine intermediate) #status predicted
F;347/Binding site: substrate phosphate (Arg) #status predicted
F;630/Active site: Cys (phosphocysteine intermediate) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type epsilon precursor
C;Species: Homo sapiens (man)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: UNIPROT:P23469; GB:X54134; NID:g35791; PIDN:CAA38069.1; PID:g35792
C;Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Molecule type: mRNA
A; Residues: 1-700 < KRU>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Title: Structural diversity and evolution of human receptor-like protein tyrosine A; Reference number: S12049; MUID:91006018; PMID:2170109
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             R;Krueger, N.X.; Streuli, M.; Saito, EMBO J. 9, 3241-3252, 1990
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Cross-references: UNIPROT:Q61042; GB:U40280; NID:g1373052; PIDN:AAB02190.1; PID:g13730
C;Comment: This enzyme plays an important role in osteoclast formation and function in t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               A; Molecule type: mRNA
A; Residues: 1-699 < SCH>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      F;20-700/Product: protein-tyrosine-phosphatase, receptor type epsilon #status F;47-63/Domain: transmembrane #status predicted <TMN>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A; Gene: GDB: PTPRE
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                                                                                                                                                                                           F;636/Binding site: substrate phosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                              F;78-698/Domain: leukocyte common antigen cytosolic domain homology <LAC>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Status: preliminary
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77.8%;
                                             Score 44; I
Pred. No. 2
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Pred. No. 2.5;
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N;Alternate names: pl
C;Species: Oryctolagy
C;Date: 05-Dec-1996;
C;Accession: S68250
R;Wu, L.W.; Baylink,
ne-specific phosphatase F;1-405/Product: protein tyrosine F;1-65,94-405/Product: protein tyr F;9-33/Domain: transmembrane Herer
                                                                                       A; Map position: 6q
C; Superfamily: protein-tyrosine-phosphatase, receptor type
C; Keywords: alternative initiators; alternative splicing; h
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Accession: I49372; I49373; I49374
R;Pixley, F.J.; Lee, P.S.W.; Dominguez, M.G.; Einstein, D.B.; S.J. Biol. Chem. 270, 27339-27347, 1995
A;Title: A heteromorphic protein tyrosine phosphatase, PTPphi, A;Reference number: I49372; MUID:96070847; PMID:7592997
A;Accession: I49372
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: mRNA
A;Residues: 1-405 <WUL>
C;Superfamily: protein-tyrosine-phosphatase, receptor type O; fibronectin type III repea C;Superfamily: protein-tyrosine-phosphatase, receptor type O; fibronectin type III repea C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphatase F;151-373/Domain: protein-tyrosine-phosphatase homology <PTP1>
F;357/Active site: Cys (phosphocysteine intermediate) #status predicted
F;331/Binding site: substrate phosphate (Arg) #status predicted
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S68250
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A; Residues: 1-405 < RES>
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A;Accession: S68250
A;Status: preliminary
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A;Residues: 119~405 <RE3>
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                                                                                                                                                                                                                                A;Cross-references: EMBL:U37467; NID:g1063643; PIDN:AAC52313.1;
C;Comment: Expression of the various forms is tissue specific. (
cytosolic form is expressed at very low levels in macrophages.
                                                                                                                                                                                                                                                                                                                                                                                          Cross-references: EMBL:U37466; NID:g1063641; PIDN:AAC52312.1; PID:g1063642; Accession: I49374
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cross-references: UNIPROT:Q60998; EMBL:U37465; NID:g1063639; PIDN:AAC52311.1;
                                                                                                                                                                                                                                                                                                                                                                    Status: translated from
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Species: Oryctolagus cuniculus (domestic rabbit)
Jate: 05-Dec-1996 #sequence_revision 13-Mar-1997
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Species: Mus musculus (house mouse)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Date: 02-Jul-1996 #sequence_revision 21-Feb-1997 #text_change 09-Jul-2004
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Best Local
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em. J. 316, 515-523, 1996
                                                                                                                                                                               PTPphi
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77.8%;
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                        tyrosine
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Pred. No.
                     phosphatase phi, long form #status predicted rosine phosphatase phi, short form #status pre
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                                                                                               e O; fibronectin type I:
brain; cardiac muscle;
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protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type O precursor - N;Alternate names: GLEPP1; glomerular epithelial protein 1 N;Contains: protein tyrosine phosphatase phi, cytosolic form; protein ty C;Species: Homo sapiens (man) C;Date: 03-0ct-1995 #sequence_revision 08-Feb-1996 #text_change 22-Jun-1 C;Date: 03-0ct-1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type O precursor - N;Alternate names: GLEPP1; glomerular epithelal protein 1 N;Contains: protein tyrosine phosphatase phi, cytosolic form; protein ty C;Species: Oryccolagus cuniculus (domestic rabbit) C;Species: 07-Oct.1994 #sequence_revision 08-Feb-1996 #text_change 09-Jul-2 C;Date: 07-Oct.1994 #sequence_revision 08-Feb-1996 #text_change 09-Jul-2
R; Wiggins, R.C.; Wiggins, J.E.; Goyal, Genomics 27, 174-181, 1995
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A;Note: authors translated the codon GGC for residue 1101 as Gln C;Superfamily: protein-tyrosine-phosphatase, receptor type O; fibronectin type C;Keywords: glycoprotein; kidney; phosphoprotein; phosphoric monoester hydrolas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Molecule type: mRNA
A;Residues: 1-1187 <THO>
A;Cross-references: UNIPROT:Q28613; GB:U09490; NID:g529411; PIDN:AAA61709.1; PID:g52941
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   J. Biol. Chem. 269, 19933-19962, 199
A;Title: GLEPP1, a renal glomerular
A;Reference number: A53661; MUID:943
A;Accession: A53661
                                                                                                                                                                                            A57064
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                                               Accession: A57064
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Best Local
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77.8%;
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MUID:94327545; PMID:7519601
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Pred. No. 17;
                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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cloning

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cDNAs encoding

human GLEPP1,

a membrane protein tyrosine

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C;Superfamily: protein-tyrosine-phosphatase, receptor type 0; fibronectin type III repeat C;Reywords: glycoprotein; kidney; phosphorotein; phosphoric monoester hydrolase; recept F;1-29/Domain: signal sequence #status predicted <SIG>F;30-819/Domain: signal sequence #status predicted <SIT>F;30-819/Domain: fibronectin type III repeat homology #status atypical <FN3A>F;30-109/Domain: fibronectin type III repeat homology *status atypical <FN3A>F;30-29/Domain: fibronectin type III repeat homology <FN3C>F;329-409/Domain: fibronectin type III repeat homology <FN3D>F;329-409/Domain: fibronectin type III repeat homology <FN3D>F;329-619/Domain: fibronectin type III repeat homology <FN3B>F;529-619/Domain: fibronectin type III repeat homology <FN3G>F;722-804/Domain: fibronectin type III repeat homology <FN3G>F;722-804/Domain: fibronectin type III repeat homology <FN3G-F;812-818/Product: protein tyrosine phosphatase phi, long form #status predicted <PNIS *SECTION** *SE
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A;Title: Cloning, expression and chromosomal localization of A;Reference number: $60613; MUID:95273089; PMID:7753550
A;Accession: $60613
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A; Residues: 1-1216 <SEI>
A; Residues: 1-1216 <SEI>
A; Cross-references: UNIPROT:Q16827; EMBL:Z48541; NID:g963058; PIDN:CAA88425.1; PID:g9630A; Cross-references: UNIPROT:Q16827; EMBL:Z48541; NID:g963058; PIDN:CAA88425.1; PID:g9630C; Superfamily: protein-tyrosine-phosphotasse, receptor type O; fibronectin type III repeat C; Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphatase; F;529-626/Domain; fibronectin type III repeat homology <3FR.
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C;Species: Homo sapiens (man)
C;Date: 27-Apr-1996 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
C:Date: 27-Apr-1996 #sequence_revision 13-Mar-1997 #text_change 09-Jul-2004
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A;Accession: A57064
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                                                                                                                                                                                                                                                                                                               ;962-1184/Domain: protein-tyrosine-phosphatase homology <PTP1>
;1136/Active site: Cys (phosphocysteine intermediate) #status predicted
;1142/Binding site: substrate phosphate (Arg) #status predicted
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Best Local
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77.8%;
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77.8%;
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Pred. No. 17;
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RESULT 15

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A;Molecule type: mRNA
A;Residues: 1-1256 <TOM>
A;Cross-references: UNIPROT:Q9ERM5; GB:AF295638
C;Comment: This enzyme, specifically expressed:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein-tyrosine-phosphatase (EC 3.1.3.48), a receptor-type - mouse N;Alternate names: phosphotyrosine phosphatase, a receptor-type C;Species: Mus musculus (house mouse) C;Date: 17-Nov-2000 #sequence_revision 17-Nov-2000 #text_change 09-C;Accession: JC7503 R;Tomemori, T.; Seki, N.; Suzuki, Y.; Shimizu, T.; Nagata, H.; Konno Biochem. Biophys. Res. Commun. 276, 974-981, 2000
                                                                                                                         8
                                                                                                                                                                                                                                                   A;Map position: 6
C;Superfamily: protein-tyrosine-phosphatase, receptor type O; fibronectin type III repea
C;Keywords: brain; glycolysis; kidney; phosphoric monoester hydrolase
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A;Contents: Brain
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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ALIGNMENTS

RESULT 1 ABG31982 Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; 30-NOV-2000; 2000WO-GB004566 06-JUN-2002. WO200244207-A1 Human CD45 HLA-binding peptide, huCD45/684. 05-NOV-2002 (first entry) ABG31982 standard; peptide; 9 Homo sapiens. haematopoietic; colony forming unit-granulocyte macrophage; immunotherapeutic; ABG31982; malignant. A

30-NOV-2000; 2000WO-GB004566

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

Stauss HJ, Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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26-FEB-1991;
10-FEB-1993;
23-MAY-1995;
                                                                                                                                                               Identifying a compound that modulates the phosphotyrosine phosphatase activity of a polypeptide by incubating the compound with the polypeptide, which is in pure form, in a membrane preparation or in a whole cell.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Receptor-type protein tyrosine phosphatase; RPTP; phosphotyrosine phosphatase; cancer; diabetes; hu
                                                                                                               Example;
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91US-00654188.
93US-00015985.
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                                                                                                            52pp; English
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The invention relates to receptor-type protein tyrosine phosphatase (RPTP) and its corresponding nucleic acid. The invention also relates a method for identifying a compound that modulates the phosphotyrosine

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01-MAR-1991;
16-AUG-1993;
                    The invention relates to an isolated RNA encoding a protein tyrosine phosphatase designated as PTPH1 appearing as ADD22982. Also included is a retroviral vector comprising the RNA. The RNA is useful for treating or preventing a condition in which abnormally high levels of phosphotyrosine occur in a mammalian cell (which involves introducing into the mammalian cell and agent which comprises DNA or RNA encoding all or a portion of a PTPH1, under conditions sufficient to express PTPH1 where the polypeptide can catalyse dephosphorylation of tyrosyl residues that are phosphorylated through action of a protein tyrosine kinase. The RNA is also useful for reversing a malignant phenotype of a mammalian cell which is associated with tyrosyl phosphorylation catalysed by a protein tyrosine kinase. The DNA or RNA is delivered via a recombinant retrovirus or a recombinant vaccinia virus. At least one tyrosyl residue that is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phosphatase activity. The method is useful for identifying a compound that modulates the phosphotyrosine phosphatase activity of a polypeptide and for identifying susceptibility to cancer, diabetes or other diseases associated with alterations in cellular phosphotyrosine metabolism. The present sequence is human leukocyte common antigen (ICA) phosphatase domain (PD) 1. This sequence is used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       04-DEC-1996;
22-JAN-1999;
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gene therapy; retroviral vector; phosphotyrosine; pp60(V-src);
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2003-810871/76.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        19-JUN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             breast
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADD22988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ADD22988 standard; protein; 248
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PTPH1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-NOV-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             US2003113294-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JAN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (COLD-) COLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer; leukaemia; CD45-D1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             1 ILPYDYNRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Similarity
9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ILPYDYNRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          90US-00494036.
91US-0063579.
93US-00107420.
96US-00759536.
99US-00235251.
2001US-00848294.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RNA encoding for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SPRING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2002US-00293231
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tyrosine phosphatase,
                                                                                                                                                                                                                                                                                                                                                                                                                          4B; 12pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein tyrosine phosphatase designated malignancies such as breast cancer, leu
                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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Pred. No. 0.1
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ₿
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           leukemia.
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RESULT 5
AAG78272
ID AAG7
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AC AAG7
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AAB59374
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ភូមិនេះ
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Best Local S
Matches
                                                                                          Query Match
Best Local Similarity
Matches 9; Conserv
                                                                                                                                              The present invention provides substrate trapping mutant protein tyrosine phosphatases (PTPs). They can be used to reduce the activity of tyrosine phosphorylated proteins and to screen for modulators capable of altering the binding of protein tyrosine phosphatases to their substrate. These may be used in disease diagnosis and treatment
                                                                                                                                                                                                                 New substrate trapping mutant protein tyrosine phosphatases which the wild type PTP catalytic domain invariant aspartate with an unphosphorylated amino acid, useful in gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    aberrantly phosphorylated by pp60(V-src). The RNA is useful for or preventing malignancies such as breast cancer and leukaemia. present sequence is a PTP similar to PTPH1.
 AAG78272;
                 AAG78272
                                                                                                                                Sequence
                                                                                                                                                                                                  Disclosure; Fig 1; 109pp; English.
                                                                                                                                                                                                                                                       WPI; 2001-080598/09.
                                                                                                                                                                                                                                                                        Tonks NK,
                                                                                                                                                                                                                                                                                                          03-JUN-1999;
16-JUN-1999;
                                                                                                                                                                                                                                                                                                                                    24-MAY-2000; 2000WO-US014211
                                                                                                                                                                                                                                                                                                                                                     14-DEC-2000.
                                                                                                                                                                                                                                                                                                                                                                      WO200075339-A1
                                                                                                                                                                                                                                                                                                                                                                                       Mus
                                                                                                                                                                                                                                                                                                                                                                                                        substrate
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AAB59374 standard; protein; 253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                 Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                   21-MAR-2001
                                                                                                                                                                                                                                                                                         (COLD-) COLD SPRING HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                      g.
                                                             21
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10 ILPYDYNRV 18
                                                                             ب
                                                                                                                                                                                                                                                                                                                                                                                                                                protein tyrosine phosphatase #1.
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                                                                                                                                                                                                                                                                                                                                                                                                                tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Similarity 9; Conserv
                 standard;
                                                                                                                                253 AA;
                                                                      ILPYDYNRV 9
                                                            ILPYDYNRV 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    248 AA;
                                                                                                                                                                                                                                                                      Zhang
                                                                                                                                                                                                                                                                                                                                                                                                       trapping
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                                                                                                                                                                                                                                                                                                         99US-0137319P.
99US-00334575.
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                                                                                                                                                                                                                                                                                                                                                                                                              phosphatase;
                 protein; 309
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
                                                                                                      100.0%;
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                                                                                                     Score 50; DB 4
Pred. No. 0.14;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 50; DB 7
Pred. No. 0.14;
Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                human;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ₽
                                                                                              Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                mouse;
                                                                                                              4.
                                                                                                                                                                                                                                                                                                                                                                                                              fruit fly;
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                                                                                                            Length 253;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 248;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                              Indels
                                                                                                                                                                                                                                                                                                                                                                                                               PTP;
                                                                                             <u>,,</u>
                                                                                                                                                                                                                                    (PTP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                           is replaced
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                                                                                            Gaps
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RESULT 6
AAM23689
ID AAM2
XX AAM2
XX AAM2
XX AAM2
XX Huma
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                                                                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                             Query Match
Best Local (
        25-JAN-2001; 2001WO-US002687
                         02-AUG-2001.
                                                                                                                      Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                 Flint
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Human; sheep; pig; co tomato; monkey; dog;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The invention relates to identifying agents which alter the interaction between a protein tyrosine phosphatase (PTP) and a tyrosine phosphorylated polypeptide using fluorescence energy signals. The methods are useful for performing screening assay to identify agents that alter PTP binding to and PTP-mediated catalytic dephosphorylation of phosphotyrosine peptide substrates. The present sequence is that of a catatlytic domain of a PTP for comparison with human PTPIB (AAG78262)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Screening assays to identify agents that alter protein typhosphatase (PTP) binding to, and PTP-mediated catalytic dephosphorylation of phosphotyrosine peptide substrates.
                                                            tomato; monkey;
diagnostics; fo
                                    gene therapy;
                                                                                                                                                                                                                               AAM23689;
                                                                                                                                                                                                                                                                      AAM23689 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence
Homo sapiens
                                                                                                                                                                                      12-OCT-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; Fig 1; 79pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2001-570570/64.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-FEB-2000; 2000US-0181769P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-FEB-2001; 2001WO-US005180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           23-AUG-2001.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mus sp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    yeast.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PTP; protein tyrosine phosphatase; tyrosine phosphorylated polypeptide; dephosphorylation; phosphotyrosine; human; PTP1B; mouse; fruit fly;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse CD45-D1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              19-DEC-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (CEPT-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Ą,
                                                                                                                                          EST encoded protein SEQ ID NO: 1214.
                                                                                                                                                                                                                                                                                                                                                                            21
                                                                                                                                                                                                                                                                                                                                                                                                              1 ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 CEPTYR INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            309
                                                                                                                                                                                                                                                                                                                                                                         ILPYDYNRV 29
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cool DE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
                                                            forensic test;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AA;
                                                                                                                                                                                   (first entry)
                                       nutrition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (first
                                                    cow; fruit fly; yeast; hamster; macaque;
g; sea urchin; expressed sequence tag; EST
sic test; gene mapping; genetic disorder;
                                                                                                                                                                                                                                                                 protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           entry)
                                                                                                                                                                                                                                                                      641
                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Score 50;
Pred. No.
                                                                                                                                                                                                                                                                        8
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               DB 4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                          <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 309,
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    tyrosine
                                                          biodiversity;
                                                                                                   horse;
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RESULT 7
ABU07333
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Best Local Similarity
""" hes 9; Conserv:
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-JAN-2000; 2
17-JUL-2000; 2
03-AUG-2000; 2
15-SEP-2000; 3
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tang
                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         urchin and tomato. These were derived from from the organism of interest. They can be forensics, gene mapping, identification of biodiversity and for nutritional purposes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Isolated polypeptide for treatment of antibodies and research use.
          Chicz
                                                                                                                       28-MAR-2002;
                                                                                                                                           10-OCT-2002
                                                                                                                                                              WO200278524-A2
                                                                                                                                                                                                     adenocarcinoma;
                                                                                                                                                                                                                                                                                     29-JAN-2003
                                                                                                                                                                                                                                                                                                                           ABU07333 standard; protein; 641 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 20; Page 875-876; 1275pp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (HYSE-)
                             (ZYCO-) ZYCOS INC.
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DB; AAH98348.
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                                                                                                                                                                                                                                                                  expressed
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Drmanac RA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                  ILPYDYNRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                             641 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    from a variety of organisms, hamster, monkey, macaque, yed tomato. These were derived
         Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; 2000US-00491404.
; 2000US-00617746.
; 2000US-00631451.
; 2000US-00663870.
                                               2001US-0279495P.
2001US-029244P.
2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
2002US-0338985P.
                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    invention provides the
                                                                                                                       2002WO-US009671
                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                protein tag
                                                                                                                                                                                                     sarcoma; melanoma; lymphoma; leukaemia
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&A, Zhang
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J, W
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                                                                                                                                                                                                                                                                  (EPT) #2034.
                                                                                                                                                                                                                                                                                                                                                                                                                               Score 50;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         n XB, Wa
Werhman
         RG;
                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein and coding sequences of mms, including human, dog, cat, ho, yeast, bacteria, fruit fly, sea ved from expressed sequence tags by can be used in diagnostics,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Wang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diseases,
                                                                                                                                                                                                                                                                                                                                                                                                                               0.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                         В
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Z
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          mutations, to assess
The present sequence is
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                                                                                                                                                                                                                                                                                                                                                                                                                      0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chen
                                                                                                                                                                                                                                                                                                                                                                                                                                       Length
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diagnostics, raising
                                                                                                                                                                                                                                                                                                                                                                                                                      Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Asundi
                                                                                                                                                                                                                                                                                                                                                                                                                      <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               s of he horse,
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                                                                                                                                                                                                                                                                                                                                                                                                                      Gaps
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cc mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this co polypeptide, is useful for treating cancer. The polypeptide is also cc useful for identifying compounds that binds to this to class I or class I Mic-binding polypeptide. The polypeptide is also co polynucleotides are particularly useful for treating or preventing cmyeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, clambar or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
  New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
Sequence 641 AA;
                                                                                                                                                                                                                                                                                                                                                              The invention
                                                                                                                                                                                                                                                                                                                                                                                                 Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-040607/03.
                                                                                                                                                                                                                                                                                                                                       fragment of
                                                                                                                                                                                                                                                                                                                                                                                                                                                         treating cancer, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                 2
                                                                                                                                                                                                                                                                                                                                                                                                 SEQ
                                                                                                                                                                                                                                                                                                                                     on describes
a kinase, pl
                                                                                                                                                                                                                                                                                                                     cytoskeletal
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                                                                                                                                                                                                                                                                                                                                                                                               2034; 134pp;
                                                                                                                                                                                                                                                                                                                     phosphatase,
etal protein,
                                                                                                                                                                                                                                                                                                                                                            a purified polypeptide, which comprises
                                                                                                                                                                                                                                                                                                                                                                                                 English
                                                                                                                                                                                                                                                                                                                     protease, protease inhibitor, receptor or transcription fac
                                                                                                translational
                                                                                                                                                                                                                                                                                                                     factor.
                                                                                                                                                                                                                                                                                                                                                            נע
                                                                                                                                                              melanoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                for
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                                                             at
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RESULT 8
AAM39262
                                                                    Query Match
Best Local S
Matches 9
AAM39262 standard;
                                        525
                                                      1 ILPYDYNRV
                                                                      9
                                                                              Similarity
                                                                      Conservative
                                                      9
protein; 664 AA
                                                                             100.0%;
                                                                      0
                                                                             Score 50;
Pred. No.
                                                                     Mismatches
                                                                             0.4;
                                                                                    9
                                                                      0,
                                                                                    Length 641
                                                                      Indels
                                                                      0,
                                                                      Gaps
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DВ

0,

문 Ś

WO200153312-A1 Homo sapiens. Human; nootropic; immunosuppressant; cytostatic; gene therapy; cance: peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;

cancer; CNS;

Human

polypeptide

SEQ ID

NO 2407.

22-OCT-2001 AAM39262;

(first entry)

23-DEC-1999 21-JAN-2000; 25-APR-2000; 20-UUN-2000; 19-JUL-2000; 03-AUG-2000; 14-SEP-2000; 19-CCT-2000; 29-NOV-2000;

2000US-00552317 2000US-00598042 2000US-00620312 2000US-00653450 2000US-00653150 2000US-00693036 2000US-00727344

26-DEC-2000; 2000WO-US034263

2000US-00488725.

99US-00471275

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ABU07334

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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Matches
                                                 28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activity chemotactic/chemokinetic activity, haemostatic activity, haemostatic activity, haemostatic contents.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tang YT,
Wang J,
Zhou P,
                                                                                                                                                                                                                                                                                                                          Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 664 AA;
                                                                                                                                                              28-MAR-2002; 2002WO-US009671.
                                                                                                                                                                                                  10-OCT-2002.
                                                                                                                                                                                                                                      WO200278524-A2
                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                             adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                    Human expressed protein tag (EPT) #2035.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABU07334 standard; protein; 664
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         part of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Novel nucleic acids and polypeptides, useful for treating disorders such
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; AAI58418.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-442253/47.
 (ZYCO-) ZYCOS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HYSE-) HYSEQ INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         thrombolytic activity, cancer diagnosis and therapy, drug screening, ays for receptor activity, arthritis and inflammation, leukaemias and .S disorders. Note: The sequence data for this patent did not form
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            525
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                μ
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Goodrich R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ILPYDYNRV 533
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQ ID NO 2407; 10078pp;
                                                 ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                             sarcoma; melanoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Asundi V,
Wehrman T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
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Xu (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 50; DB 4
Pred. No. 0.42;
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                                                                                                                                                                                                                                                                                                             lymphoma;
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Yang Y,
                                                                                                                                                                                                                                                                                                               leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Length 664;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ren F, V
Zhang J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0,
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J, Zhao QA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Gaps
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ABO84454
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Best Local S
Matches 9
                                                                                   14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                 Morris DW,
                                                                                                                                                                                                                                                       02-SEP-2004.
                                                                                                                                                                                                                                                                                                                                                                                 Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                    Human cancer-associated protein HP13-011.1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABO84454;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 664 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2;
                                                                                                                                                                                                                                                                                            WO2004074320-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                          18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABO84454 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Chicz
                                                     (SAGR-) SAGRES DISCOVERY INC
                                                                                                                                                                                                                   17-FEB-2004; 2004WO-US004730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            525
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                1 ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ILPYDYNRV 533
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                 Morris DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
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                 Malandro
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 50;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
                 S.
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0.42; DB 6; 0

Length 664;

0;

Gaps

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CC The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, Clymphoma or leukaemia. These are also useful for screening agents for CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (RPT) isolated from human tissue for translational CC specification but was obtained in sequence in the printed CC specification but was obtained in sequence of translational CC specification but was obtained in sequence for translations in the printed CC ftb, who, inthinhall-had not sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating cancer, e.g. colon cancer, gastric cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 2035; 134pp; English.
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2004-652914/63

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Crecombinant nucleic acid or expression vector, a microarray for detecting comprising at least 10 contiguous nucleotides of any of the above-comprising at least 10 contiguous nucleotides of any of the above-comprising at least 10 contiguous nucleotides of any of the above-comprising at least 10 contiguous nucleotides of any of the above-components of a CA sequence selected from any of the 95 cc mentioned nucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above cc monoclonal antibody, a pharmaceutical composition comprising the above cc antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the presence or absence of cancer cells in an individual, a method for delivering a therapefucial for disposing cancer correct of a method for delivering a therapefucial segent to cancer cells in an individual, a method for delivering a therapefucial segent to cancer cells in an individual, an electronic library comprising the above polypeptide (or their fragments), methods of screening composition and treating cancer activity or for a bioactive agent to cancer cells in an activity or for a bioactive agent capable of modulating cassociated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of a second for treating cancers and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and cleukaemia. These may also be used in screening for agents that modulate cancer data for this patent did not form part of the printed cancer in tryoning the cancer is a human CAP protein format directly from WIPO art from wino introning or the sequence is a human cap part of the printed capable of methods are useful for detecting.
                                                                                                                                                                                                                                                                                                                                                                                                                                                    RESULT 11
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         claim 18; seqid 145; 310pp; English.
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22-DEC-2003; 2003WO-US040978
                                            15-JUL-2004
                                                                                          WO2004058052-A2
                                                                                                                                                                                     cardiant; gene
                                                                                                                                                                                                           Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                          Human myocardial infarction-associated gene derived protein, SEQ ID 1040
                                                                                                                                                                                                                                                                                                           18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                      ADQ39377 standard; protein; 960
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         144
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1 ILPYDYNRV 9
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9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            764 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            relates to an isolated nucleic acid comprising at least 10 cleotides of any of the 233 polynucleotide sequences given ication, or its complement. The nucleic acids encode cancer
                                                                                                                                                                                     therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Score 50; DB 8;
Pred. No. 0.49;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Length 764;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in such caid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity.
cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible exidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder cell-cycle abnormality; enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one the nucleotide sequences given in the specification in the individual nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           200-DEC-2002; 2002US-0434778B;
10-MAR-2003; 2003US-0453135B;
30-APR-2003; 2003US-0466412B;
23-SEP-2003; 2003US-0504955B;
                                                                                                                          Rat protein tyrosine phosphatase #7
                                                                                                                                                                                                                                                            ADL16236 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 960 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 10; SEQ ID NO 1040; 145pp; English.
                                                                                                                                                                        06-MAY-2004
                                                                                                                                                                                                                  ADL16236;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                   340 ILPYDYNRV 348
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                                                                                                                                                                        (first entry)
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                                                                                                                                                                                                                                                            protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
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                                                                                                                                                                                                                                                              962
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Score 50; DE
Pred. No. 0.6
0; Mismatches
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                            metabolic disorder;
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Best Local :
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irveversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); medicine, for treating abnormal cell proliferation or growth (cancer);
                                                       Translational profiling; expressed protein tag; BPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
   Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               screening
cancer or
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                   Human expressed protein tag (EPT)
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                                                                                                                                                                                                                                                                                                                                                                                                                                      standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ILPYDYNRV 352
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                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                  protein; 1114
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Pred. No. 0.
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                                                                                                                                                                                                                                                   #1912
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                                                                                                                                                                                     phosphatase,
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ABU05239
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29-JAN-2003

(first

ABU05239

standard; protein;

Human expressed

protein tag

(EPT) #1905

Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.

Homo sapiens

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                                                                                                            Matches
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                                                                                                                                                                                                                                                                                                                                                                       transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an account of the color of the col
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
                                                                                                                                                                                                                                                                                                  expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                  Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
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                                                                                                                                                                                                                                                                      itp.wipo.int/pub/published_pct_sequences
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                                                                                                         Local Similarity nes 9; Conserv
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ILPYDYNRV 502
                                                      ILPYDYNRV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
                                                                                                            Conservative
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                                                                                                         Score 50; DB
Pred. No. 0.7
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RESULT 15
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21-MAY-2001; 2001US-029544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinnoma, sercoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                               Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cyptoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompacability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                             Human expressed protein tag (EPT) #1906.
                                                                                                                                                                                29-JAN-2003
                                                                                                                                                                                                                                                   ABU05240 standard; protein; 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   .wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                              494
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                                                                                                                                                                                                                                                                                                                                                                                                              Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                0;
                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 50;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                               ; DB 6;
. 0.75;
                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1114;
                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                       phosphatase
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Human expressed protein tag

(EPT) #1911.

29-JAN-2003

(first entry)

Translational profiling; expressed protein tag; protease; protease inhibitor; transporter; cytos receptor; transcription factor; cancer, MHC; major histocompatability complex; myeloma; color

myeloma; colon cancer;

gastric cancer,

cytoskeletal prote

protein;

phosphatase;

Homo sapiens. adenocarcinoma;

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                                                                                                                                                Query Match
Best Local
                                                                                                                                  Matches
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01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                              The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cycoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleocides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, parcoma, melan lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                                                                                                                                    expressed protein tag (EPT) isolated from human tissue for treprofiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-MAR-2001;
21-MAY-2001;
                                                                                                                                                                                            Sequence 1143 AA;
ABU05245 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-MAR-2002;
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                                                                                                                                                                                                                        ftp.wipo.int/pub/published_
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          leukemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ZYCO-)
                                                                          523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 RM, Tomlinson
                                                                                                     1 ILPYDYNRV 9
                                                                                                                                 Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZYCOS
                                                                         |||||||||| 531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID
                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                               100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           1906; 134pp;
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                                                                                                                                                                                                                        pct_sequences
                                                                                                                                  <u>,</u>
                                                                                                                                  Score 50; DB
Pred. No. 0.7
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          English
                                                                                                                                       DB .
                                                                                                                                                              6;
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                                                                                                                                                                Length 1143;
                                                                                                                                                                                                                                                                      for translational
                                                                                                                                    0,
                                                                                                                                                                                                                                          from WIPO
                                                                                                                                                                                                                                                                                                                melanoma,
                                                                                                                                                                                                                                                                                                                                                                                         to this
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RESULT 17
ADL16232
ID ADL16
XX ADL16
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ADL16
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor. The Cramporter, cytoskeletal protein, receptor or transcription factor. The CC transporter cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide or the antibody that binds to this CC polypeptide. The pulypeptide is also useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational CC specification but was obtained in electronic format directly from WIPO at Cfr purpo in/mph/published por semence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Matches
                                                                                      protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorde
   Homo sapiens
                                                                                                                                                                                                                                                                                                      06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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01-OCT-2001;
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21-MAY-2001;
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                                                          cell-cycle abnormality; enzyme
                                                                                                                                                                                cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                     Human protein tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                   ADL16232 standard; protein; 1143 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
2001US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2001US-0279495P.
2001US-0292544P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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Pred. No. 0.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Mismatches
                                                                                                                                                                                                                                           #27.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      .77;
                                                                                      allergy; metabolic disorder;
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ADQ18845
ID ADQ1
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AC ADQ1
AC ADQ1
AC 26-A
XX
OE Huma
XX
KW Soft
XX
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                                                                                                                                                                                                                                                                                                                                                                                                                                       Ş
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a method for identifying a protein tyrosine CC phosphatase (PTP) that is reversibly oxidized in a cell by: (i) CC subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP CC anaerobically, in presence of a sulfhydryl-reactive agent (II) that creversibly modifies the thiol group of an invariant Cys in the active cell te of PTP; and (iii) determining, under reducing conditions, the level CC of dephosphorylation, caused by PTP, of a labelled substrate (III), where CC dephosphorylation indicates that an active PTP is present. No details CC of tests for these activities are given. The method is used to identify CC reversibly oxidized PTP, also to identify agents that; (a) reversibly CC modify such PTP; or (b) alter inducible signalling pathways in which PTP CC are involved. These agents are potentially useful, in human or veterinary CC medicine, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune diseases; allergy or other CC abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 screening for special cancer or autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1143
                                                                           WO2004048938-A2
                                                                                                                                                   soft tissue sarcoma;
                                                                                                                                                                                         Human soft
                                                                                                                                                                                                                               26-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure; SEQ ID NO 81; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Tonks NK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                     ADQ18845;
                                                                                                                                                                                                                                                                                                         ADQ18845 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (COLD-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WO2003068984-A2
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DB; ADL16231.
                                                                                                                                                                                                                                                                                                                                                                                                       523 ILPYDYNRV 531
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                                                                                                                                                                                         tissue sarcoma-upregulated protein - SEQ ID 1664.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                               (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                100.0%;
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                                                                                                                                                   cytostatic; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 50;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
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0.77;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                   vaccine; screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Length 1143;
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26-NOV-2003; 2003WO-US038193.

10-JUN-2004.

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RESULT 19
AAM41048
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23-DEC-1999;
21-JAN-2000;
25-APR-2000;
20-JUN-2000;
19-JUL-2000;
13-AUG-2000;
14-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                                  Human
                                                                                                                                                                                                                                                            Human, nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of a gene in a and comparing
                                                                                                                26-DEC-2000; 2000WO-US034263
                                                                                                                                              26-JUL-2001.
                                                                                                                                                                         WO200153312-A1
                                                                                                                                                                                                                                                chemokinetic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                invention relates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              523
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    detection of soft tissue sarcoma comprises determining expression gene in a first soft tissue sample and a normal soft tissue sample omparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                                                                                                                                                                                    polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1 ILPYDYNRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2
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                                                                                                                                                                                                                                                                                                                                                                                                                        standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ILPYDYNRV 531
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQ ID NO 1664;
                                        99US-00471275.
2000US-00488725.
2000US-00552317.
2000US-00598042.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
2000US-00620312.
2000US-00653450.
2000US-00662191.
                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             AA;
                                                                                                                                                                                                                                                thrombolytic; drug screening; arthritis;
                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 5979.
                                                                                                                                                                                                                                                                                                                                                                                                                      protein; 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                to a novel method for detecting soft tissue sarcoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Zlotník A;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          210pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 50;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  0.77;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Length 1143;
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                                                                                                                                                                                                                                                inflammation
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ABUUS 24

ABUUS 242

ID ABUUS 3

AC ABUUS 5

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XX Prote e

KW recep

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KW adeno

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PR 28-MA

PR 21-MA

PR 01-MA

PR 01-MA

PR 01-MA

PR 01-MA

PR 01-MA
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Best Local S
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            28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form
                                                                                                                                                                                                  Translational profiling; expressed protein tag; EPT; kinderotease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer MHC; major histocompatability complex; myeloma; colon cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tang
Wang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to human nucleic acids (AAI57798 encoded polypeptides (AAM38642 AAM42213) with nootropi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Novel nucleic acids and polypeptides, useful for treating as central nervous system injuries.
                                                                               28-MAR-2002;
                                                                                                                                                                                       adenocarcinoma;
                                                                                                                                                                                                                                                                    Human expressed
                                                                                                                                                                                                                                                                                                29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                  ABU05242 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Example
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29-NOV-2000; 2000US-00727344
                                                                                                         10-OCT-2002
                                                                                                                                    WO200278524-A2
                                                                                                                                                                                                                                                                                                                          ABU05242;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               immunosuppressant and cytostatic activity. The polynucleotides
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     of the printed specification
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Wang
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; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                                                                                                              (first entry)
                                                                               2002WO-US009671
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                                                                                                                                                                                                                                                                     protein
                                                                                                                                                                                       sarcoma; melanoma;
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Wehrman T,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ø
                                                                                                                                                                                                                                                                                                                                                                                                                   536
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                                                                                                                                                                                                                                                                                                                                                  protein; 1149
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Xu C
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Pred. No. 0.7
0; Mismatches
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                                                                                                                                                                                       lymphoma; leukaemia
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Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (AAI57798-AAI61369)
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                                                                                                                                                                                                                                           EPT; kinase; phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Length 1149;
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Zhang J,
                                                                                                                                                                                                                             protein;
                                                                                                                                                                                                    gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disorders
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J, Zhao
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  are useful
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RESULT 21
ABO84453
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, Imploma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (BPT) isolated from human tissue for translational CC specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
Best Local
                                        14-FEB-2003;
14-MAR-2003;
15-APR-2003;
15-JUN-2003;
15-SEP-2003;
                                                                                                                                                                  02-SEP-2004.
                                                                                                                                                                                                                               Mus musculus
                                                                                                                                                                                                                                                                                                        Mouse cancer-associated protein MP13-011.1.
                                                                                                                                                                                                                                                                                                                                         18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                    AB084453
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                   17-FEB-2004; 2004WO-US004730
                                                                                                                                                                                                WO2004074320-A2
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(SAGR-)
                            15-DEC-2003;
                                                                                                                                                                                                                                                             lymphoma; CAP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              reating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ZYCO-) ZYCOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              528
                                                                                                                                                                                                                                                                            cancer-associated
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SAGRES DISCOVERY INC
                                                                                                                                                                                                                                                                                                                                                                                                 standard; protein; 1157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ILPYDYNRV 536
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 SEQ ID NO 1908; 134pp; English.
                                        ; 2003US-00367094.
; 2003US-00388838.
; 2003US-00417375.
; 2003US-00461862.
; 2003US-00663431.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                       (first entry)
                            2003US-00737318
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                                                                                                                                                                                                                                                                          protein; cytostatic;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 50; DB 6
Pred. No. 0.78;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      6; Length 1149;
                                                                                                                                                                                                                                                                            cancer; leukaemia;
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RESULT 22
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antiarteriosclerotic; anticonvolsant; noctropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy; developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the activity of a CA protein (CAP), methods for detecting cancer associated with expression of a polypeptide in a test cell sample, a method for treating cancers and a method for inhibiting the expression of CA gene in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a mouse CAP protein sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1157 AA;
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                                                                                                                                                                                                            Human
                                                                                                                                                                                                                                                             18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                   ADR39747 standard; protein; 1192 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  539
                                                                                                                                                                                                          kinase
                                                                                                                                                      kinase and phosphatase protein; KPP; enzyme; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1 ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Conservative
                                                                                                                                                                                                          and phosphatase KPP-20 protein
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Pred. No.
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ADQ39378
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AC ADQ3
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DE Huma
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KW Myoc
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                                                                                                                                                                                                                                                                                                                                                                                                                          with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polynucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-045844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          therapy. The human KPP proteins and polymucleotides can be used in dene diagnosing, treating and preventing diseases or conditions associated with the decreased expression or conditions associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present sequence represents the human kinase and phosphatase prote (KPP), designated KPP-20. The human kerneyences from the present invention have cytostatic, antiarteriosclerotic, anticonvulsant, nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antiinflammatory and thyromimetic activities, and can be used in gene
                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
              Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human.
                                                                 Human myocardial infarction-associated gene derived protein, SEQ ID 1041.
                                                                                                     18-NOV-2004
                                                                                                                                                                       ADQ39378 standard; protein; 1219 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Claim 1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2004-635568/61.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Jackson AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ramkumar J,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-FEB-2004; 2004WO-US005092.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2004074453-A2
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                                                                                                                                                                                                                                                                                                                                             Local
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                                                                                                                                                                                                                                                                                                                           Similarity
9; Conserv
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                                                                                                                                                                                                                                                              ILPYDYNRV
                                                                                                                                                                                                                                                                                           ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             , Marquis JP, Swarnakar A,
Lee SY, Hafalia AJA, Rich
, Yang J, Gorvad AE;
                                                                                                                                                                                                                                                                                                                           100.0%; llarity 100.0%; Conservative 0;
                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                 8
                                                                                                                                                                                                                                                           580
                                                                                                                                                                                                                                                                                                                               0
                                                                                                                                                                                                                                                                                                                             Score 50; DB 8 Pred. No. 0.81; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chawla NK,
                                                                                                                                                                                                                                                                                                                                                             8; Length 1192;
                                                                                                                                                                                                                                                                                                                             0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tran UK;
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RESULT 24 ADM67187 ID ADM67

ADM67187 standard;

protein;

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ADM67187;

03-JUN-2004

(first entry)

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                                                                                                                                               CC altered risk for myocardial infarction in the individual. The invention CC further comprises; an isolated nucleic acid molecule comprising at least CC 8 contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody CC that specifically binds to the polypeptide or its antigen-binding CC that specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a complete containing an CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This cased cisted gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                      Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-DEC-2002; 2002US-0434778P

10-MAR-2003; 2003US-0453132P

30-APR-2003; 2003US-0466412P

23-SEP-2003; 2003US-0504955P
                                                                                                                                            Sequence 1219 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                myocardial infare
the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel method for identifying an has an altered risk for developing myocardial infarction. I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-DEC-2003; 2003WO-US040978
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 599
                                   1 ILPYDYNRV 9
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                                                                                         Similarity
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 ILPYDYNRV
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                                                                       Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ction by nucleic
 607
                                                                                     100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  acids
                                                                       0
                                                                      Score 50; DB
Pred. No. 0.8
0; Mismatches
                                                                                         ; DB 8;
. 0.83;
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                                                                                                        Length 1219;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The method
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                                                                       <u>,</u>
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ADP12966
ID ADP12
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XX DT 12-AU
DT 12-AU
DX Prote
XX XX Trans
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                                                                                                                                                                                                                                                                                              This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti co-besity pharmaceutical compositions. Specifically, it refers to a high combility group I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein (HMGI-C) that is associated with obesity and composition describes performing differential gene expression analysis to invention describes performing differential gene expression analysis between the white adipose tissue (MAT) or stromal vascular tissue (SVT) composition of any two different mice selected from a group consisting of wild-type, composition that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compositions exhibit amorectic, antidiabetic and compositions exhibit amorectic and compositions exhibit amorectic and the invention.
                                                                                                                                                                                                                                                    Query Match
Best Local (
                                                                                                                                                                                                                                        Matches
                                                                                                                                                                                                                                                                                              Sequence 1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
transplant rejection; immune system; rheumatoid arthritis; lupus;
                          Protein encoding referenece mRNA sequence #51.
                                                        12-AUG-2004
                                                                                  ADP12966;
                                                                                                           ADP12966 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID NO 541; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              05-FEB-2004.
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                                                                                                                                                                                 636
                                                                                                                                                                                                             1 ILPYDYNRV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         adipocyte specific;
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                                                                                                                                                                                                                                                    Similarity
                                                                                                                                                                                 ILPYDYNRV
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                                                                                                                                                                                                                                       Conservative
                                                       (first entry)
                                                                                                                                                                                 644
                                                                                                           protein; 1256
                                                                                                                                                                                                                                                  100.0%;
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                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                  Score 50; DB 8
Pred. No. 0.86;
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                                                                                                                                                                                                                                                                8,
                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                Length 1256;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 rejection, e.g. cardiac or kidney transplant rejection, in an indi-
comprises detecting the expression level of one or more genes. The
methods, system and kits are useful in diagnosing or monitoring
                      Myocardial infarction; detection; single nucleotide
                                                                    Human myocardial infarction-associated gene derived
                                                                                                                                                                                                                   ADQ39376 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1256 AA;
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20-DEC-2002; 2002US-00325899
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cardiant; gene
                                                                                                                     18-NOV-2004
                                                                                                                                                                     ADQ39376;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The present invention relates to diagnosing or monitoring transplant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Claim 65; SEQ ID NO 2975; 1762pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-400724/37.
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                     (first entry)
therapy;
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                                                                                                                                                                                                                   protein; 1258
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0.86;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      DB 8;
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                                                                                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Length 1256;
                      polymorphism; SNP;
                                                                    protein,
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                                                                       SEQ ID 1039
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22-DEC-2003; 2003WO-US040978

Homo gapiens. WO2004058052-A2 15-JUL-2004.

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RESULT 27
ADQ39379
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding that specification and which is between about 16 and 1000 nucleotides in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a nucleic acid molecule; a method of detecting a variant polypeptide; and a myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                            Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                              Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a novel method for identifying an has an altered risk for developing myocardial infarction comprises detecting a single nucleotide polymorphism (SNP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-04531359.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                    Homo sapiens
                                                                                                                                                                                                                                ADQ39379 standard; protein; 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                      cardiant; gene therapy;
                                                                        Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                               Human myocardial infarction-associated gene derived protein, SEQ ID 1042
                                                                                                                                                       18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 10; SEQ ID NO 1039; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (APPL-) APPLERA CORP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                   638
                                                                                                                                                                                                                                                                                                                                                                                                        l Similarity
9; Conserv
                                                                                                                                                                                                                                                                                                                                                                      1 ILPYDYNRV 9
                                                                                                                                                                                                                                                                                                                                 ILPYDYNRV 646
                                                                                                                                                                                                                                                                                                                                                                                                            Conservative
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                                                                                                                                                     (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                            Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                            0;
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RESULT 28
ADL16234
                                                                                                                                                                                                                                                                                                                                                                              cc comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's can nucleic acids, where the presence of the SNP is correlated with an correlated risk for myocardial infarction in the individual. The invention correlated risk for myocardial infarction in the individual. The invention correct risk for myocardial infarction in the individual. The invention correct risk for myocardial infarction in the individual. The invention correct risk for myocardial infarction in the individual. The invention correct risk for its complement and encoding any one of the amino correct sequence given in the specification; an sNP given in the specification; an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding corresponding and which is between about 16 and 1000 nucleotides in the specification and which is between about 16 and 1000 nucleotides in the correct risk for detecting an SNP in a nucleic acid, comprising the composition for the invention may be used in gene therapy. The nucleic acid molecule; a method of detecting a variant polypeptide; and a composition for treating or preventing wocardial infarction. This sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from correct sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
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                                                                                                                                                                                                                                                δ
XXXXXXX
                                                                                                                                                                                                                                                                                                                    Query Match
                                                                                                                                                                                                                                                                                    Matches
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10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                  06-MAY-2004 (first entry)
                                                                                                                                                                                                                                                                                                                                                         Sequence 1267 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           has an altered risk for developing myocardial infarction. comprises detecting a single nucleotide polymorphism (SNP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  myocardial infarction by
the individual's nucleic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cargill M,
                                                                                                                       ADL16234 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10; SEQ ID NO 1042; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            22-DEC-2003; 2003WO-US040978
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                                                                                                                       protein; 1291 AA.
                                                                                                                                                                                                                                                                                                     100.0%;
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Pred. No.
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Mouse protein tyrosine phosphatase

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RESULT 29
ABU05243
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                                                                                                                                                                                                                                                                                                                                                                                                                          cc phosphatase (PTP) that is reversibly oxidized in a cell by: (i)

Cc subjecting a sample, including a cell that contains at least one PTP, to

cc conditions that cause reversible oxidation of PTP; (ii) isolating PTP

cc anaerobically, in presence of a sulfhydryl-reactive agent (II) that

criversibly modifies the thiol group of an invariant Cys in the active

cc site of PTP; and (iii) determining, under reducing conditions, the level

cc of dephosphorylation, caused by PTP, of a labelled substrate (III), where

cc dephosphorylation indicates that an active PTP is present. No details

cc of tests for these activities are given. The method is used to identify

creversibly oxidized PTP, also to identify agents that: (a) reversibly

cc modify such PTP; or (b) alter inducible signalling pathways in which PTP

cc are involved. These agents are potentially useful, in human or veterinary

cc medicine, for treating abnormal cell proliferation or growth (cancer);

cc guest vs. host disease; autoimmune diseases; allergy or other

cc inventions. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                             Query Match
Best Local :
Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cytosratic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                  Human expressed protein tag (EPT) #1909.
                                                                                      29-JAN-2003
                                                                                                                                                        ABU05243
                                                                                                                                                                                                                                                                                                                                                                               Sequence 1291
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
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12-FEB-2003;
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                                                                                                                                                    standard; protein; 1304 AA
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                                                                                                                                                                                                                                            ILPYDYNRV 681
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              on relates to a method (PTP) that is reversi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 83; 238pp; English.
                                                                                                                                                                                                                                                                                                             Conservative
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2003US-00366547.
                                                                                  (first entry)
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100.0%; Pred. No. 0.89;
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AXEXEXEX

Human expressed protein tag

(EPT) #1907.

Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein;

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ABU05241
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Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating concer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypuclectides are particularly useful for treating or preventing.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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                                                          ABU05241;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1304 AA;
                                                                                                                  ABU05241 standard; protein; 1304 AA.
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(first entry)
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100.0%; Pred. No. 0.:
tive 0; Mismatches
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RESULT 31
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336780P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein;
                                                                                                                                                                 Human expressed protein tag (EPT) #1910.
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RESULT 32
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Best Local S
Matches 9
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1304 AA;
                                                          Human protein tyrosine phosphatase #26.
                                                                                                                                                                                               ADL16230 standard;
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Pred. No. 0.9
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                            0.9;
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cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation;

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RESULT 33
ADP65158
ID ADP65
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ADP65
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ADP65
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AC ADP65
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DT 12-AU
DT 12-AU
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Matches
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Best Local
                                rheumatoid arthritis; collagen-induced;
antiarthritic; osteopathic; antigout; ar
                                                                                               autoimmune disease; arthritide; gene expression analysis;
                                                                                                                                                                                                                               12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                  ADP65158 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1304 AA;
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guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
cell-cycle abnormality; enzyme.
                                                                                                                                                             Human protein
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
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                                                                                                                                                             tyrosine phosphatase, receptor type,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%;
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gen-induced; immunosuppressive; antirheumatic;
antigout; antiinflammatory; dermatological;
kylosing spondylitis; Fibrositis;
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Pred. No. 0.
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ADM67209
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                                                                                                                                                                                                                                                                                                                                               Considerable of the gene expression signature to diagnose or analyse the autoimmune disease or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention of further comprises: a treatment of rheumatoid arthritis; identification of genes for targeting in the treatment of rheumatoid arthritis; in a mammal context than a mouse; diagnosis of rheumatoid arthritis in a mammal specific for rheumatoid arthritis; and reduced arthritis; and reducing the symptoms associated with collagentinuced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, antigout, antiinflammatory, dermatological, and immunomodulatory. The composing and treating autoimmune disease or arthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of collagenetic serious serious caused by an infectious agent. This sequence is not shown the specification. It has been supplied in an electronic format from the specification. It has been supplied in an electronic format from the specification. It has been supplied in an electronic format from the specification. It has been supplied in an electronic format from the specification.
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                                                                                                                                                                                                                                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia
                                                                                          ADM67209 standard;
                                                                                                                                                                                                                                                                                                                                             Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            patient sample containing mRNA, analysing gene expression using the mRN that results in a gene expression signature of the mRNA, and using that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                    Local
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                                                                                                                                                                                        684 ILPYDYNRV 692
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                                                                                                                                                                                                                                                                Similarity 9; Conserv
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                                                                                                                                                                                                                                                                  Conservative
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                                                                                          protein; 1304
                                                                                                                                                                                                                                                                100.0%; Score 50; Di
100.0%; Pred. No. 0.:
7ative 0; Mismatches
                                                                                                                                                                                                                                                                                  ,0.9;
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                                                                                                                                                                                                                                                                                                    Length 1304;
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03-JUN-2004 ADM67209;

(first entry)

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RESULT 35
ABO84455
ID ABO84
XX ABO84
XX ABO84
XX ABO84
XX ABO84
XX IB-NC
XX DT 18-NC
XX Humar
XX Humar
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/-, ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-
cobesity pharmaceutical compositions. Secifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                          Human cancer-associated protein HP13-011.2.
                                                                                                                          18-NOV-2004
                                                                                                                                                                                                                                         ABO84455 standard; protein; 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID NO 563; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             mice of different genotypes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                29-JUL-2003; 2003WO-US023684
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                                                                                                                       (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 50; DB 8; Pred. No. 0.9;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         invention.
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684 ILPYDYNRV

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                                                                                                                                                                                                                                                                                                                                              CC recombinant nucleic acid or expression vector, a microarray for detecting CC a cancer-associated (CA) nucleic acid comprising at least one probe CC comprising at least (CA) nucleic acid comprising at least one probe CC mentioned nucleotide sequences, an isolated polypeptide (encoded within CC an open reading frame of a CA sequence selected from any of the above polypucleotide sequences as mentioned in the specification, or its CC complement), an isolated antibody, (or its antigen binding fragment) that thinks to the above polypeptide, a hybridoma that produces the above CC monoclonal antibody, a pharmaceutical composition comprising the above CC antibody and a pharmaceutical excipient, a kit for detecting cancer CC cells (comprising the antibody cited above, methods for diagnosing cancer CC crior detecting the presence or absence of cancer cells in an CC individual, a method for inhibiting growth of cancer cells in an CC individual, a method for delivering a therapeutic agent to cancer cells in an CC individual, a method for delivering a therapeutic agent to cancer cells of a man ccivity of a CA protein (CAP), methods for detecting cancer cells concer anticancer activity or for a bioactive agent capable of modulating CC for anticancer activity or for a bioactive agent capable of modulating CC agene in a cell. The composition and methods are useful for detecting, concers and amethod for inhibiting the expression of CCA gene in a cell The composition and methods are useful for detecting, cancer and a method for inhibiting the expression of cancer and amethod as are useful for detecting. The present sequence is a human CAP protein sequence. Note: The composition and electronic format directly from WIPO can from wino int/pub/nublished not sequence.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      14-FEB-2003;
14-MAR-2003;
15-APR-2003;
13-JUN-2003;
15-SEP-2003;
15-DEC-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                              Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            claim 18; seqid 147; 310pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention relates to an isolated nucleic acid comprising at least 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
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                                                                                                                         Local
                                                                                                                                                                                                                                                                                                                         ftp.wipo.int/pub/published_pct_sequences
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    1 ILPYDYNRV 9
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9; Conser
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; 2003US-00417375.
; 2003US-00461862.
; 2003US-00663431.
; 2003US-00737318.
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                                                                                   Conservative
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                                                                                   100.0%; Score 50; D
100.0%; Pred. No. 0.
tive 0; Mismatches
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                                                                                                                                                                  DB
                                                                                                                                                                  8; Length 1304;
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                                                                                   Gaps
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RESULT 36
ADQ39380
                            CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleotide risk for myocardial infarction in the individual's caltered risk for myocardial infarction in the individual's caltered risk for myocardial infarction in the individual. The invention control of the specification or its complement and encoding any one of the amino caltered mucleic acid molecule comprising at least contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino caltered sequence given in the specification; an antibody comprising an amplified polymucleotide or its antigen-binding control of the specification and which is between about 16 and 1000 nucleotides in concleic acid molecule; a method of detecting an SNP given in the specification and which is between about 16 and 1000 nucleotides in concleic acid molecule; a method of detecting a variant polypeptide; and comprising the myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction. This sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from the specification. The sequence has come from the specification. The sequence has come from the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-DEC-2002;
10-MAR-2003;
30-APR-2003;
Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-NOV-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cardiant; gene therapy; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human myocardial infarction-associated gene derived protein, SEQ ID 1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Claim 10; SEQ ID NO 1043; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (APPL-) APPLERA CORP.
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2003US-0466412P.
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  AΑ;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           relates
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   a novel method for identifying an individual who developing myocardial infarction. The method
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Query Match
Best Local Similarity
Matches 9; Conser

100.0%; ilarity 100.0%; Conservative (

0,

Score 50; DB 8 Pred. No. 0.9; 0; Mismatches

8 <u>,</u>

Length 1304; Indels

0

Gaps

0,

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RESULT 37
ADQ39375
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                                                                                                                                                 CC 8 contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody CC that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a CC mucleic acid molecule; a method of detecting an serious polypeptide; and a CC myocardial infarction. The novel detection method has cardiant activity. The mucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or CC decreased risk for developing myocardial infarction method for preparing a comprise contains an increased or comprise contains an increased or contains and contains an increased or contains and contains an increased or contains and contains and contains an increased or contains and co
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                 composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel method for identifying an individual whas an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 10; SEQ ID NO 1038; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the individual's nucleic
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human myocardial infarction-associated gene derived protein, SEQ ID 1038.
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Sequence 1306 AA;

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Mismatches

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Indels

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Length 1306;

100.0%; Score 50; DB 8; 100.0%; Pred. No. 0.9;

Query Match

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CC Over-expressed in adipose tissue and as such it provides targets for anti CC over-expressed in adipose tissue and as such it provides targets for anti CC obesity pharmaceutical compositions. Specifically, it refers to a high CC mobility group I-C protein (HMGI-C) that is associated with obesity and CI is epistatic to leptin, furthermore, it refers to the observe and CI autosomal recessive trait is linked to obesity and diabetes. The present CI invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) CI of any two different mice selected from a group consisting of wild-type, CI HMGI-C -/- ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were CI identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obseity, These compositions exhibit anorectic, antidiabetic and CI obesity. These compositions exhibit anorectic, antidiabetic and protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue of mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            murine; mouse; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
Sequence 1343 AA;
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N-PSDB; ADM66929.
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12-JUN-2003; 2003US-0478206P.
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Query Match

100.0%;

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                                            Best Local Similarity 100.0%; Pred. No. 0.93; Matches 9; Conservative 0; Mismatches
673 ILPYDYNRV 681
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Search completed: May 3, 2005, 07:41:53 Job time : 52 secs

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RESULT 38

ADM67208 standard; protein; 1343 AA

Murine adipocyte specific leukocyte common antigen protein SeqID 562.

03-JUN-2004 ADM67208;

(first entry)

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Result
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129.455 Million cell updates/sec
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Copyright (c) 1993 - 2005 Compugen Ltd.
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RESULT 2 IDRTLT leukocyte con Alternate N; Contains: 1.3.48) C; Species: C; Date: 04-1 C; Accession R; Barclay, EMBO J. 6, EMBO J. 6 A; Title: Ly A; Title: Ly A; Reference A; Accession A; Molecule A; Residues: A; Cross-refi A; Experiment A; Mote: the A; Accession A; Mote: the A; Accession	Query Best I Match Qy Db	RESULT A54080 protein protein C;Spec: C;Acce: C;Acce: R;Fang J, Bio. A;Titl A;Refe: A;Acce: A;Acce: A;Resi: A;	2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3
RESULT 2 TDRTLT leukocyte common antigen pr N;Alternate names: CD45; L- N;Contains: leukocyte commo 1.3.48) C;Species: Rattus norvegicu C;Date: 04-Dec-1986 #sequen C;Accession: A29450; B29450 R;Barclay, A.N.; Jackson, D EMBO J. 6, 1259-1264, 1987 A;Title: Lymphocyte specifi A;Reference number: A91067; A;Accession: A29450 A;Molecule type: mRNA A;Residues: 20-30,163-218 < A;Cross-references: UNIPROT A;Experimental source: spli A;Note: the translation in A;Accession: B29450 A;Accession: B29450	Match Local Simi Local	n-tyrosine-phoies: Gallus galsion: A54080; K.S.; Barker I. Chem. 269, e. A transmember: A54080 us: preliminar cule type: mRN dues: 1-1237 s-references: 1-1237 s-references: phosphop 1170/Domain: phosphop 1170/Domain: px 834/Domain:	32 72 32 72 32 72 32 72 32 72 32 72 32 72 32 72 31 70 31 70 31 70 31 70 31 70
TERTIT TENTIT TENTIT TENTIT TENTIT TENTIT TENTIT TENTIT TENTIT N;Alternate names: CD45; L-CA; Ly-5; T200 N;Contains: leukocyte common antigen precursor, C;Species: Rattus norvegicus (Norway rat) C;Species: Rattus norvegicus (Norway rat) C;Accession: A29450; B29450; C29450; D29450; A6 R;Barclay, A.N.; Jackson, D.I.; Willis, A.C.; W EMBO J. 6, 1259-1264, 1989 A;Title: Lymphocyte specific heterogeneity in talenter type: mRNA A;Reference number: A91067; MUID:87275817; PMID A;Accession: A29450 A;Molecule type: mRNA A;Residues: 20-30,163-218 <bar1> A;Residues:</bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1></bar1>	100.0%; 100.0%; vative 0 9	sphatase (EC 3 illus (chicken) #sequence_revi 10592 'K: Sudol, M 14056-14063, M 14056-14063, M 14056-14063, M 14056-14063, M 14056-14063, M 154060; M 1540600;	7 1231 2 9 7 1442 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
ESULT 2 DRTIT DRTIT ENCOUTE common antigen precursor, splice form 4 - rat ;Alternate names: CD45; L-CA; Ly-5; T200 ;Contains: leukocyte common antigen precursor, splice f 1.3.48) ;Species: Rattus norvegicus (Norway rat) ;Species: Rattus norvegicus (Norway rat) ;Date: 04-Dec-1986 #sequence revision 05-May-2000 #text ;Accession: A29450; B29450; C29450; D29450; A60241; A02 ;Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, ;Caccession: A29450 ;Molecule type: mNAA ;Caccession: A29450 ;Molecule type: mNAA ;Caccession: B29450 ;Note: the translation in GenBank entry RATLCAI, PIDN:A ;Accession: B29450 ;Molecule type: mNAA	Score 44; DB Pred. No. 0.66; Mismatches	RESULT 1 A54080 protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type delta precursor - cl C;Specles: Gallus gallus (Chicken) C;Aug-1994 #text_change 09-Jul-2004 R;Fang, K.S.; Barker, K.; Sudol, M.; Hanafusa, H. J. Biol. (Chem. 269, 14056-14063, 1994 A;Title: A transmembrane protein-tyrosine phosphatase contains spectrin-like: A;Reference number: A54080; MUID:94245724; PMID:8188686 A;Accession: A54080; MUID:94245724; PMID	\$53089 \$142636 \$48148 \$48148 \$141214 \$154689 \$154689 \$254689 \$456178 \$742744 \$4744 \$4744 \$4744 \$4746 \$56816 \$56816 \$56816
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A; Molecule type: A; Residues: 20-20
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A;Residues: 187-189;K',191-192;K',208-1273 <THO>
A;Residues: 187-189;K',191-192;K',208-1273 <THO>
A;Cross-references: GB:M10072; GB:M81859; NID:g205140; PIDN:AAA41513.1; PID:g205143
A;Note: the translation in GenBank entry RATLCA1, release 113.0, begins at non-intiti
A;Note: parts of this sequence were determined by protein sequencing
R;McCall, M.N.; Shotton, D.M.; Barclay, A.N.
Immunology 76, 310-317, 1992
A;Title: Expression of soluble isoforms of rat CD45. Analysis by electron microscopy.
A;Reference number: I54569; MUID:92340120; PMID:1378817
A;Accession: I54569
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A;Cross-references: GB:M25823; GB:M24611; NID:g205159; PIDN:AAA41521.1; PID:gA;Experimental source: splice form 4
A;Note: the sequence in GenBank entry RATLCAIV, release 113.0, has the codon R;Barclay, A.N.; Jackson, D.I.; Willis, A.C.; Williams, A.F.
Adv. Exp. Med. Biol. 237, 3-7, 1988
A;Title: The leukocyte-common antigen (L-CA) family.
A;Reference number: A60241; MUID:89319817; PMID:2978200
A;Accession: A60241
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               R;Jackson, D.I.; Barclay, A.N.
Immunogenetics 29, 281-287, 1989
A;Title: The extra segments of sequence in rat leucocyte common antigen (L-CA)
A;Reference number: A45854; MUID:89233293; PMID:2523868
A;Accession: A45854
A;Status: preliminary
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A;Title: Evidence from cDNA clones that the rat leukocyte-common antigen (T200) A;Reference number: A02247; MUID:85201691; PMID:3158393
A;Accession: A02247
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A;Cross-references: GB:M25821; GI
A;Experimental source: splice for A;Accession: C29450
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A; Residues: 1-30,163-180 < MCC>
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Nikolecul
                                                                                                                                                                                                                    ;646-870/Domain: protein-tyrosine-phosphatase homology <PTP>;646-870/Domain: protein-tyrosine-phosphatase homology <PTP>;646-142,153,164,178,200,245,271,782,273,371,374,502/Binding site: carbohydrate;822/Active site: Cys (phosphocysteine intermediate) #status predicted;828/Binding site: substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Status: preliminary; translated
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erences: GB:M25822; GB:M24611;
Similarity 9; Conserv
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                                              0.7;
                                                                                   DB 1;
                                                                                   Length 1273;
Indels
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protein-tyrosine-phosphatase (EC 3.1.3.48) Ly-5 precursor (B-cell variant) N;Alternate names: 200K leukocyte common antigen; B220; CD45; Ly-5 (B-cell N;Contains: protein-tyrosine-phosphatase (T-cell variant)
                                                 specific);
                                                                                       mouse
                                                         PT
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C;Species: Mus musculus (house mouse)
C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: A28334, A29381; A61180; A60933; A33522; A29075; I54450; A28335; A23329; R;Thomas, M.L.; Reynolds, P.J.; Chain, A.; Ben-Neriah, Y.; Trowbridge, I.S. Proc. Natl. Acad. Sci. U.S.A. 84, 5360-5363, 1987
A;Title: B-cell variant of mouse T200 (Ly-5): evidence for alternative mRNA splicing. A;Reference number: A28334; MUID:87260986; PMID:2955416

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A;Accession: A28334

A;Molecule type: mRNA
A;Residues: 1-1291 <THO>
A;Residues: 1-1291 <THO>
A;Residues: 1-1291 <THO>
A;Cross-references: UNIPROT:P06800; UNIPROT:Q61814; UNIPROT:Q61815; UNIPROT:Q61813; GB:
R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A.
Proc. Natl. Acad. Sci. U.S.A. 83, 6940-6944, 1986
A;Title: Sequences of Ly-5 cDNA: 1soform-related diversity of Ly-5 mRNA.
A;Reference number: A29381; MUID:86313686; PMID:2944116
A;Accession: A29381

A;Molecule type: mRNA,
A;Residues: 1-30,170-517, NTT',521-527,'G',529-555,'S',557-587,'S',589-905,'Q',907-930,'
A;Residues: 1-30,170-517, NTT',521-527,'G',529-555,'S',557-587,'S',589-905,'Q',907-930,'
A;Cross-references: GB:M14342; NID:g198914; PIDN:AAA39458.1; PID:g198915
R;Yi, T.; Cleveland, J.L.; Ihle, J.N.
Blood 78, 2222-2228, 1991
A;Title: Identification of novel protein tyrosine phosphatases of hematopoietic cells by A;Reference number: A61180; MUID:92032882; PMID:1932742
A;Accession: A61180

A;Status: not compared with conceptual translation

A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 730-838 <71A>
A;Residues: 730-838 <71A>
R;Gonez, L.J.; Walker, I.D.; Sandrin, M.S.; McKenzie, I.F.C.
Immunogenetics 25, 263-266, 1987
A;Title: High sequence conservation between rat (T200) and mouse (Ly-5) leukocyte common
A;Reference number: A60933; MUID:87192931; PMID:3570377

A;Accession: A60933

A; Molecule type: protein
A; Molecule type: protein
A; Residues: 'R', 289-298;339,'V', 331-336,'Y';'R', 364-370,'X',372-375;595-608;638-649;669-R; Johnson, N.A.; Meyer, C.M.; Pingel, J.T.; Thomas, M.L.
J. Biol. Chem. 264, 6220-6229, 1989
A; Title: Sequence conservation in potential regulatory regions of the mouse and human le A; Reference number: A33522; MUID:89197920; PMID:2522930
A; Accession: A33522

A; Status: preliminary

A;Molecule type: DNA A;Residues: 1-22 <JOH>

R;Raschke, W.C.
Proc. Natl. Acad. Sci. U.S.A. 84, 161-165, 1987
A;Title: Cloned murine T200 (Ly-5) cDNA reveals Cross-references: GB:M22456; NID:g198755; PIDN:AAB46374.1; PID:g554185; GB:J04640;

B

A;Title: Cloned murine T200 (Ly-5) cDNA reveals multiple transcripts within B- and T-lymA;Reference number: A29075; MUID:87092355; PMID:2948186

A;Molecule type: mRNA A;Residues: 961-1291 <RAS> Accession: A29075

A;Cross-references: GB:M15174; NID:g201105; PIDN:AAA40161.1;

Immunogenetics 28, 271-277, 1988
A;Title: Structural features of Ly-5 glycoproteins of the A;Reference number: I54450; MUID:88330145; PMID:3417340

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PID:9201106

A; Reference number: A; Accession: I54450

A;Molecule type: DNA A;Residues: 32-73 <RES> A;Status: preliminary; translated from GB/EMBL/DDB.

A;Cross-references: GB:M23241; NID:g340850; PIDN:AAA39460.1; PID:g548174 R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A. Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987 A;Title: Alternative use of 5' exons in the specification of Ly-5 isofor A;Reference number: A28335; MUID:87260987; PMID:3037546 Ly-5 isoforms distinguishin

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N,Alternate names: CD45; protein-tyrosine-phosphatase, receptor type c; T200 gly N;Contains: leukocyte common antigen intermediate splice form; leukocyte common C;Specise: Homo sapiens (man)
C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004
C;Accession: A46546; B46546; C46546; A29449; B29449; I57658
R;Streuli, M.; Hall, L.R.; Saga, Y.; Schlossman, S.F.; Saito, H.
J;Exp. Med. 166, 1548-1566, 1987
A;Title: Differential usage of three exons generates at least five different mRN
A;Reference number: A46546; MUID:88061067; PMID:2824653
A;Accession: A46546
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A;Reference number: I57644; MUID:89096862; PMID:3211131
A;Accession: I57644
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R;Shen, F.W.; Saga, Y.; Litman, G.; Freeman, G.; Tung, J.S.;
Proc. Natl. Acad. Sci. U.S.A. 82, 7360-7363, 1985
A;Reference number: A23329; MUID:86042665; PMID:3864163
                                                                                                               A;Status: preliminary
A;Molecule type: mmNa
A;Residues: 1-32,99-264 <ST2>
A;Cross-references: GB:Y00638
A;Experimental source: clone I
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F;64,150,161,207,211,253,258,290,311,322,347,416,427,457,489,520,556/Binding
F;846/Active site: Cys (phosphocysteine intermediate) #status predicted
F;846/Binding site: substrate phosphate (Arg) #status predicted
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A; Residues: 10-30,170-263 <SHE>
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A; Molecule +
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A;Residues: 1-1304 <STR>
A;Cross-references: UNIPROT:P08575; GB:Y00638
A;Experimental source: clone LCA.6/2
A;Accession: B46546
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A; Residues: 1-30,74-226 <SA2>
                                                       A;Status: preliminary
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N;Alternate names: CD45; protein-tyrosine-phosphatase, receptor type c; T200 glycoprote:
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A; Residues: 'MT', 1-22 < RE2 >
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                                                                                           A;Accession: C46546
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;565-586/Domain: transmembrane #status predicted TMM>
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Cell. Biol. 8, 4889-4895, 1988
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,193-264 <ST3>
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Pred. No. 0.71;
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A;Cross-references: GDB:119768; OMIM:151460
A;Map position: 1q31-1q32
G;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Superfamily: leukocyte common antigen; leukocyte common antigen; phosphoprotein; phosphoric monoester hyc;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyc;Keywords: alternative splicing; glycoprotein; ptosplic domain homology <LAC>
F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC>
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R;Tsal, A.Y.; Streull, M.; Salto, H.
R;Tsal, Biol. 9, 4550-4555, 1989
Mol. Cell. Biol. 9, 4550-4555, 1989
A;Title: Integrity of the exon 6 sequence is essential for A;Reference number: 157658; MUID:90066468; PMID:2531281
                                                                                                                                                                                                                                                                                                                                    C; Superramra
C; Keywords:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Okumura, M.; Matthews, R.J.; Robb, B.; Bork, P.; submitted to the EMBL Data Library, August 1995 A;Reference number: Z22317
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   probable protein-tyrosine-phosphatase (EC 3.1.
N;Alternate names: CD45 homolog
C;Species: Heterodontus francisci (horn shark)
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                                                                                                                                                                                                                                                                                                                                        A;Residues: 1-1200 <OKU>
A;Residues: 1-1200 <OKU>
A;Residues: 1-1200 <OKU>
A;Cross-references: UNIPROT:Q91054; EMBL:U34750; NID:g1304393; PID:g1335805; PIDN:AAB011A;Cross-references: UNIPROT:Q910545, EMBL:U34750; PIDN:g1304393; PID:g1335805; PIDN:AAB011A;Cross-references: UNIPROT:Q910545, PIDN:AAB011A;Cross-references: UNIPROT:Q910545, PIDN:AAB011A;Cross-references: UNIPROT:Q910545, PIDN:AAB011A;Cross-references: UNIPROT:Q910545, PIDN:AAB011A;Cross-references: UNIPROT:Q910545, PIDN:Q910545, PIDN:Q910545, PIDN:Q910545, PIDN:Q910545, PIDN:Q910
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Reference number: A; Accession: T43148
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Gene: GDB:PTPRC; CD45
A;Cross-references: GDB
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A; Residues: 146-192 < RES>
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A;Residues: 1-31,193-649,'L',651-869,'G',871-872,'A',874-1206,'P',1208-1304
A;Cross-references: GB:Y00062; NID:g34275; PIDN:CAA68269.1; PID:g34276
A;Experimental source: clones pHLC-1 and lambdaHLG1
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밁
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BOO YILIHQALL
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                                                                                   1 YILIHQALV 9
                                                                                                                                                                      Similarity
8; Conserv
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9; Conserv
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808
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                                                                                                                                                                                                                    Score 41;
Pred. No.
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Pred. No. 0.72;
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                                                                                                                                                                                                                                                              DB 2;
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RESULT 6

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S.; Moule, S.; O'Gaora, P.
Nature 413, 848-852, 2001
A;Authors: Parry, C.; Quail, M.; Rutherford, K.; Simmonds
A;Title: Complete genome sequence of a multiple drug resi
A;Reference number: AB0502; MUID:21534947; PMID:11677608
                                                                                                                                                                             glycerol-3-phosphate O-acyltransferase (EC 2.3.1.15) - Salmonella enterica (Species: Salmonella enterica subsp. enterica serovar Typhi A;Note: this species has also been called Salmonella typhi C;Date: 09-Nov-2001 #sequence_revision 09-Nov-2001 #text_change 16-Aug-2004 C;Accession: AB1015
                                                                                                                                                                                                                                                                                          RESULT
AB1015
                                                                                                                   R;Parkhill, J.; Dougan, G.; James, th, T.; Connerton, P.; Cronin, A.; S.; Moule, S.; O'Gaora, P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Title: Genome sequence of Yersinia pestis, the causative agent of plague A;Reference number: AB0001; MUID:21470413; PMID:11586360
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, deno-Taraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barri Nature 413, 523-527, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision 02-Nov-2001 #text_change 09-Jul-2004
C;Accession: AG0489
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    probable iron transport permease YPO4024 [imported] - Yersinia pestis (strain C;Species: Yersinia pestis
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A; Accession: T40513
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R; Gwilliam, R; Rajandream, M.A.; Barrell, B.G.; Skelton,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   yeast ero1 homolog - fission yeast (Schizosaccharomyces pombe)
(;Species: Schizosaccharomyces pombe
C;Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 09-Jul-2004
                 A; Accession: AB1015
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;Experimental source: strain 972h-;
Status: preliminary
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gene: YPO4024
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Best Local
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77.8%;
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Pred. No.
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Pred. No. 7
                                                                                                                                           K.D.; Thomson, N.R.; Pickard,
Davis, P.; Davies, R.M.; Dowd,
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                                                                                 Simmonds, M.;
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                                                            Skelton, J.; Stevens, K.;
Salmonella enterica serov
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                                                                                                                                           D.; Wain, J.;
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glycerol-3-phosphate O-acyltransferase (EC 2.3.1.15) - Haemophilus influenzae (strain I C;Species: Haemophilus influenzae (c;Date: 18-Aug-1995 #sequence_revision 18-Aug-1995 #text_change 16-Aug-2004 C;Accession: D64090 R;Fleischmann, R.D.; Adams, M.D.; White, O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage, Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Glodek, A.; Kelley, J.M.; Weidman, Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, L.I.; Fuhrmann, J.L.; Geoghagen, N.S.M. D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M. Science 269, 496-512, 1995 A;Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, A;Authors: Gnehm, C.L.; McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Smith, H.O.; Venter, McDonald, L.A.; Small, K.V.; Fraser, C.M.; Small, K.V.; F
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A;Cross-references: GB:AL513382; PIDN:CAD09219.1; PID:C;Genetics:
C;Genetics: A;Gene: STY4431
C;Superfamily: Glycerol-3-phosphate O-acyltransferase C;Keywords: acyltransferase; coenzyme A
                                                                                                                                                                                                                                                                                                  A;Cross-references: UNIPROT:P44857; GB:U32758; GB:L42023; NID:g1573747; PIDN:AAC22406.1; C;Superfamily: Glycerol-3-phosphate O-acyltransferase / dihydroxyacetone phosphate acylt C;Keywords: acyltransferase; coenzyme A; membrane protein; phospholipid biosynthesis
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A;Molecule type: DNA
A;Residues: 1-810 <TIGR>
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AC0039 10

glycerol-3-phosphate O-acyltransferase
C;Species: Yersinia pestis
C;Date: 02-Nov-2001 #sequence_revision pestis
#sequence_revision 02-Nov-2001 #text_change 16-Aug-2004 (EC 2.3.1.15) [imported] - Yersinia pestis (strai

C;Accession: AC0039

R;Parkhill, J.; Wren, B.W.; Thomson, N.R.; Titball, R.W.; Holden, M.T.G.; Prentice, deno-Tarraga, A.M.; Chillingworth, T.; Cronin, A.; Davies, R.M.; Davis, P.; Dougan, il, M.; Rutherford, K.; Simmonds, M.; Skelton, J.; Stevens, K.; Whitehead, S.; Barra Nature 413, 523-527, 2001

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A; Title: Genome sequence A; Reference number: AB000 uence of Yersinia pestis, the causative agent AB0001; MUID:21470413; PMID:11586360 of plague

A; Accession: AC0039

A;Status: preliminary

A; Molecule type: DNA A; Residues: 1-825 < KUR>

A;Cross-references: UNIPROT:Q8ZJ18; GB:AL590842; PIDN:CAC89174.1; C;Genetics: PID:g15978413; GSPDB:G

Genetics:

A;Gene: plsB C;Superfamily: Glycerol-3-phosphate O-acyltransferase / dihydroxyacetone C;Keywords: acyltransferase; coenzyme A phosphate acylt

S Matches Query Match Local 6 Similarity Conservative 77.3%; 1; Score 34; Pred. No. Mismatches 56; 2 2; Length 825 Indels 0, Gaps

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A;Description: this membrane-bound enzyme catalyzes the cid; it may also function in the regulation of membrane a;Pathway: phospholipid biosynthesis C;Superfamily: Glycerol-3-phospholipid c;Keywords: accol-
                                           R;Hayashi, T.; Makino, K.; Villara, S.; Shiba, T.; Haulura, ....
gasawara, N.; Yasunaga, T.; Kuhara, S.; Shiba, T.; Haulura, ....
DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli 0157:H7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         u. Bacteriol. 174, 5309-5316, 1992
A;Title: Cloning and sequencing of Escherichia coli ubiC
A;Reference number: A42956; MUID:92355505; PMID:1644758
A;Accession: C42956
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                                                                                                                                                                                             glycerol-3-phosphate acyltransferase [imported] - Escherichia coli (strain C;Species: Escherichia coli C;Decies: Bscherichia coli C;Date: 18-Jul-2001 #sequence_revision 18-Jul-2001 #text_change 02-Jun-2003 C;Accession: H91256
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A;Experimental source: strain K-12, substrain MG1655
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Science 277, 1453-1462, 1997
A;Title: The complete genome sequence of Escherichia coli K-12.
A;Reference number: A64720; MUID:97426617; PMID:9278503
A;Accession: H65211
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Note: sequence extracted from NCBI backbone (NCBIN:110475, NCBIP:110483) R;Blattner, F.R.; Plunkett III, G.; Bloch, C.A.; Perna, N.T.; Burland, V.; A.; Rose, D.J.; Mau, B.; Shao, Y.
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A; Note: this sequence was partially
R; Nichols, B.P.; Green, J.M.
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C;Species: Escherichia coli
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;Status: preliminary
;Molecule type: DNA
;Residues: 1-827 <HAY>
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;Residues: 805-827 <NIC>
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A; Note:
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A;Residues: 1-827 <STO>
A;Cross-references: GB:AE005174; NID:g12518990; PIDN:AAG59240.1;
A;Experimental source: strain O157:H7, substrain EDL933
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A;Experimental source:
C;Genetics:
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A; Residues: 1-327 < REI>
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                                                                                                                                                                                                                                                                                    C; Accession: S73304
R; Reith, M.; Munholland, J.
                                                                                                                                                                                                                                                                                                                 C;Species: chloroplast Porphyra purpurea
C;Date: 19-Mar-1997 #sequence_revision 09-May-1997
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001
C;Accession: D86097
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C;Superfamily:
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C;Superfamily: Glycerol-3-phosphate O-acyltransferase / dihydroxyacetone
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Cytochrome P450 cyc (imported) - Agrobacterium tumefaciens (strain C58, Dupont)
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; 51, DOI=10.1101/gr.15 Nagaoka S., Sasaki N Kitsunai T., Tashiro Hazama M., Nishine T Huchi S., Ikegami T.,	SEQUENCE FROM N.A. STRAIN-C57BL/6J; TISSUB=Oviduct; MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100; MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100; Carninci P., Shibata Y., Hayatsu N., Sugahara Y., Shibata Konno H., Okazaki Y., Muramatsu M., Hayashizaki Y.; "Normalization and subtraction of cap-trapper-selected cD prepare full-length cDNA libraries for rapid discovery of Genome Res. 10:1617-1630(2000).	3=Oviduct; cation Research Group Phase I transcriptome based on functi NB.";	uct; 217851; DOI=10.1038/35055500; full-length mouse cDNA collect	duct; 349636; DOI=10.1016/S0076; n cDNA cloning."; 99).	Craniata; Ve Sciurognathi	Created) Last sequence Last annotatio adult female ne:E230015G23	PRT; 878 AA.	ALIGNMENTS	Q8CZIO Q664B2 Q8ZAO2 Q74QS3 Q71BA5 Q90YJ5 PLSB_ECO57 PLSB_ECOLI PLSB_SALTI PLSB_SALTI PLSB_SALTI PLSB_PASMU
2600; 1., Carninci P., H., Itoh M., 1., Harada A., Kashiwagi K.,	i5100; libata K., Itoh M., ed cDNAs to rry of new genes.";	& II Team; onal annotation of	;500; ;ollection.";	,-6879 (99) 03004-9;	Buteleostomi; Murinae; Mus.	update) nn update) oviduct cDNA, RIKEN full- product:protein tyrosine sequence. (Fragment).			Q8czi0 yersinia pe Q664h2 yersinia pe Q8za02 yersinia pe Q8za02 yersinia pe Q74qg3 yersinia pe Q9iha5 potamotrygo Q90y15 brachydanio P58130 escherichia P00482 escherichia Q8z165 salmonella Q8zh69 salmonella Q8zk19 salmonella Q9cln7 pasteurella P44857 haemophilus Q7mzb7 photorhabdu Q65uk8 mannheimia

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DR MGD; GO:0009897; C:external side of plasma membrane; IDA. GO; GO:0009897; C:external side of plasma membrane; IDA. GO; GO:0009897; C:external side of plasma membrane; IDA. GO; GO:000181; p:B-cell differentiation; IMP. GO; GO:000182; P:B-cell differentiation; IMP. GO; GO:000217; p:T-cell differentiation; IMP. GO; GO:00030217; p:T-cell differentiation; IMP. GO; GO:00042098; p:T-cell proliferation; IMP. GO; GO:00042098; p:T-cell differentiation; IMP. GO; GO:00040509; p:T-cell differentiation; IMP. GO; GO:0000997; p:T-cell differentiation; IMP. GO; GO:00000997; p:T-cell differenti
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                                                           Eukaryota; Mētazoa;
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RESULT 3
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Pfam; PF00041; fn3; 2.

Pfam; PF00101; Y_Dhosphatase; 2.

Pfam; PF00100; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC; 2.

SMART; SM00404; PTPC; 2.

SMART; SM00404; PTPC; 2.

PROSITE; PS0085; FN3; 2.

PROSITE; PS0085; TYR_PHOSPHATASE_1; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_2; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_PTP; 2.

SEQUENCE 962 AA; 109934 MW; DZE6B7F23D
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CD45_N
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01-JAN-1988 (Rel. 06, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation updat.
Leukocyte common antigen precursor (EC 3.1.
common antigen Ly-5) (CD45) (T200).
                                                                                      Boyse E. P
"Cloning
                                                                                                                                                                                                                                                                                                                           Saga
                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.

MEDLINE=86313686; PubMed=2944116;

MEDLINE=86313686; PubMed=8631686;

MEDLINE=86313686; PubMed=8631686;

MEDLINE=86313686; PubMed=8631686;

MEDLINE=86316866; PubMed=8631686;

MEDLINE=86316866; PubMed=8631686;

MEDLINE=86316866; PubMed=86316866;

MEDLINE=863168666; PubMed=8631686666;

MEDLINE=8631686666; PubMed=863168666;

MEDLINE=86316866666; PubMed=8631666666;

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MEDLINE-85201691; PubMed=3158393; DOI=10.1016/0092-8674(85)90063-7;
Thomas M.L., Barclay A.N., Gagnon J., Williams A.F.,
Thomas M.L., Barclay A.N., Gagnon J., Williams A.F.,
"Evidence from CDNA close that rat leukocyte-common antigen (T200)
                              Proc. Natl. [4]
                                                                                                                                                                                                     SEQUENCE OF 1
TISSUE=T-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Name=Ptprc; Synonyms=Ly-5;
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                                                                                                                                           Shen F.-W.,
                                                                                                                                                                                                                                                                                                  Proc. Natl.
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SEQUENCE OF
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Acad. Sci.
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                                                                                                                                                                                                                                                                                                  F.-W., Boyse E.A.;
S.A. 84:1991-1991(1987)
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                                                          82:7360-7363(1985)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PRT;
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                                                                                                                                                 Freeman
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                                                                                                                                                 J.-S.,
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domain of
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                                                                                                                                                                                                                                                                                                                                                                                                                                                          mRNA.";
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MGD; MGI:9781; Ptprc.

GO; GO:0009897; C:external side of plasma membra
GO; GO:0005515; F:protein binding; IPI.

InterPro; IPR003961; FN III-like.

InterPro; IPR003961; FN III-like.

InterPro; IPR003961; TYR phosphatase.

InterPro; IPR000382; Tyr_PP.

Pfam; PF00041; fn3; 3.

Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

PROSITE; PS00383; FN3; 2.

PROSITE; PS0053; FN3; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_2; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_7; 2.

PROSITE; PS0056; TYR_PHOSPHATASE_7; 2.

PROSITE; PS0057; TYR_PHOSPHATASE_7; 2.
                        DOMAIN
TRANSMEM
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SIGNAL
CHAIN 2
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or send a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This SWISS-PROT entry is copyright. It is produced through a collab between the Swiss Institute of Bioinformatics and the EMBL outst the European Bioinformatics Institute. There are no restrictions use by non-profit institutions as long as its content is in modified and this statement is not removed. Usage by and for comentities requires a license agreement (See http://www.isb-sib.ch/anor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           EMBL; M14342; AAA39458.1; --
EMBL; M11934; AAA39461.1; --
EMBL; M15174; AAA40161.1; --
PIR; A23329; A23329.
PIR; A28334; A28334.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Arendt C.W., Ostergaard H.L.;
"Identification of the CD45-associated 116-kDa and 80-kDa proteins the alpha- and beta-subunits of alpha-glucosidase II.";
J. Biol. Chem. 272:13117-13125(1997),
-i- FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               HSSP; P18052; 1YFO.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Raschke W.C.; "Cloned murine T200 (Ly-5) cDNA reveals multiple transcripts within "Cloned murine T200 ineages."; Proc. Natl. Acad. Sci. U.S.A. 84:161-165(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=87092355; PubMed=2948186
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DEVELOPMENTAL STAGE: Expression is restricted to the compartment of development.

PTM: Heavily N- and O-glycosylated.

SIMILARITY: Belongs to the protein-tyrosine phosphat Receptor class 1/6 subfamily.

SIMILARITY: Contains 2 fibronectin type III domains.

SIMILARITY: Contains 2 protein-tyrosine phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH.
SUBCELLULAR LOCATION: Type I men
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Name
Comment=A number of isoforms;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           first one. CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O = protein
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Leukocyte common antigen
Extracellular (Potential)
Potential.

Cytoplasmic (Potential).
Fibronectin type-III 1.
Fibronectin type-III 2.
Protein-tyrosine phosphat
Protein-tyrosine phosphat
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rms are produced;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  noved. Usage by and for commercial (See http://www.isb-sib.ch/announce/
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                                                                              (Potential).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                         membrane;
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                                                                                                                    non antigen.
(Potential).
                                                                                                                                                                                             Hydrolase;
; Signal; T-cell;
  phosphatase
phosphatase
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Best Local S
                                                       Fang K.S., Barker K., Sudol M., Hanafusa H.;

"A transmembrane protein-tyrosine phosphatase contains spe
Trepeats in its extracellular domain.";

J. Biol. Chem. 269:14056-14063(1994).

EMBL; Z21960; CAA79972.1; -.

EMBL; Z31960; CAA79972.1; -.

EMBL; L11285; AAA20561.1; -.

EMBL; L1285; AAA20561.1; -.

EMBL; CAA79972.1; -.

EMBL; COLOUGATO, Privolase activity; IEA.

GO; GO:0004725; F: protein tyrosine phosphatase activity; I

GO; GO:0006470; P: protein amino acid dephosphorylation; IE

Ffam; PF001012; Y phosphatase; 2.

Pfam; PF00102; Y phosphatase; 2.

R SMART; SM00060; PN3; 2.

R SMART; SM00194; PTPC; 2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q91976 PRELIMINARY; PRT; 1237 AA. Q91976; O1-NOV-1996 (TrEMBLrel. 01, Created) 01-NOV-1996 (TrEMBLrel. 01, Last sequence update) 05-JUL-2004 (TrEMBLrel. 27, Last annotation updat Protein tyrosine phosphatase lambda precursor) (Prophosphatase lambda precursor). Gallus gallus (Chicken).
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CARBOHYD
PROSITE; PS50853; FN3; 1.
PROSITE; PS00383; TYR_PHOSPHATASE_1;
PROSITE; PS50056; TYR_PHOSPHATASE_2;
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CARBOHYD
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Fang K.S., Ba
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Eukaryota;
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                                                                                                                                                                                                                                                                                                                                                                                                   TISSUE=Brain;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Barker K.,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Chordata; Craniata; Vertebrata; Euteleostomi;
Neognathae; Galliformes; Phasianidae; Phasiani
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N-linked (G
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Pred. No.
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Phosphocysteine intermediate
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01-NOV-1986
01-AUG-1988
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Hydrolase; Signal.
SIGNAL 1 21 Potential
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MEDLINE=85201691; PubMed=3158393; DOI=10.1016/0092-8674(85)90063-7;

Thomas M.L., Barclay A.N., Gagnon J., Williams A.F.;

"Evidence from cDNA clones that the rat leukocyte-common antigen

(7200) spams the lipid bilayer and contains a cytoplasmic domain of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           CD45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ALTERNATIVE SPLICING.
MEDLINE=87275817; PubMed=2440674;
Barclay A.N., Jackson D.I., Willia B.C., Williams A.F.;
"Lymphocyte specific heterogeneity in the rat leucocyte common
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
Barclay A.N., Jackson
Submitted (MAY-1987) t
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             terminus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (T200) spans the lipid
30,000 Mr.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=10116;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Name=Ptprc;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Leukocyte common antigen variant 4 (CD45) (T200) (Fragment).
                                                                    INDICATE THE CYCOPLASMIC ACCURATE CONTROL OF THE COUNTRY IN TISSUE SPECIFICITY: Variants 4 and 3 are found in variants 1 and 2 are found in thymocyte and lymph I PTM: Heavily N- and O-glycosylated.

PTM: The cytoplasmic dommain The cytoplasmic The cytoplasmic dommain The cytoplasmic The cytopl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Indus.";
) J. 6:1259-1264(1987).
) J. 6:1259-1264(1987).

PUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       tyrosine + phosphate.
SUBUNIT: Binds GANAB a
SUBCELLULAR LOCATION:
ALTERNATIVE PRODUCTS:
sites.
SIMILARITY: Belongs to the protein-tyrosine phosphatase family.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Event=Alternative splicing; Named isoforms=4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        41:83-93 (1985).
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                                                                                                                                                                                                                                                                                         IsoId=P04157-3; Sequence=VSP_005166;
                                                                                                                                                                                                                                                                                                                                                      IsoId=P04157-2; Sequence=VSP_005167;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Comment=Additional
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|YILIHQALV 843
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          due to differences in polypeptide sequences near
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               1237 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Chordata;
Rodentia;
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to the
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence=Displayed;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Willis A.C., Will: EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      0,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Rattus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               I membrane protein.
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                                                                               potential phosphorylation
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EMBL; Y00065; CAA68273.1; -.
EMBL; Y00065; CAA68273.1; -.
EMBL; Y00065; CAA68274.1; -.
EMBL; Y00065; CAA68275.1; -.
EMBL; M25820; AAA41518.1; -.
EMBL; M25821; AAA41519.1; -.
EMBL; M25822; AAA41520.1; -.
EMBL; M25823; AAA41521.1; -.
HSSP; P18052; 1YFO.
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Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro;
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SIMILARITY: Contains 2 fibronectin type III domains.
SIMILARITY: Contains 2 protein-tyrosine phosphatase domains
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IPRO03961; FN_III.

IPRO08957; FN_III-like.

IPRO00387; TYR_phosphatase.

IPRO00242; Tyr_PP.
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00383; TYR PHOSPHATASE 1; 2.
50056; TYR PHOSPHATASE 2; 2.
50055; TYR PHOSPHATASE PTP; 2.
splicing; Antigen; Glycoprotein; Hydrolase;
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InterPro; IPR008957; FN III-like.
InterPro; IPR003595; PTPc motif.
InterPro; IPR00387; TYR phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tissue Antigens 64:165-172(2004).

EMBL; AY445818; AAS06903.1; -

GO; GO:0004775; F:protein amino au
                   Name=Ptprc; Synonyms=Ly5;
Mus musculus (Mouse).
Mus musculus (Mouse).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
                                                      Lymphocyte common antigen precursor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vs. human.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     PubMed=15245371;
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Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Aotus vociferans (Spix's owl monkey)
Eukaryota; Metazoa; Chordata; Crania
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S -> R (in Ref. )
MW; C257CBD2A3551
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C257CBD2A355BCEA CRC64;
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          vs. human.";
Tissue Antigens 64:165-172(2004).
Tissue Antigens 64:165-172(2004).
EMBL; AV445817; AAS06902.1; -.
GO; GO:0004725; F:protein tyrosine ph
GO; GO:0006470; P:protein amino acid
InterPro; IPR003961; FN III-like.
InterPro; IPR003595; PTPC_motif.
InterPro; IPR003595; TYR_phosphatase
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PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00194; PTPC; 2.
PROSITE; PS50853; FN3; 2.
PROSITE; PS50853; TYR_PHOSPHATASE_1; 2.
PROSITE; PS50956; TYR_PHOSPHATASE_PTP; 2.
PROSITE; PS50955; TYR_PHOSPHATASE_PTP; 2.
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GG; GG:0009897;

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Montoya G.E., Ve
                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
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SIGNAL
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE
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HSSP; P18052; 1YFO.
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                                                                                                                                                                                                    "Comparative analysis
                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                  NCBI_TaxID=37293;
                                                                                                                                                                                                                                                                                                                                                                Aotus nancymaae (Ma's night monkey).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 GO; GO:0046652; P:thymocyte differentiation; InterPro; IPR003961; FN_III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Dev. Immunol. 1:243-254(1991).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Zebedee S.L,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MEDLINE=92361152; PubMed=1822988;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Comparison of mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     GO:0009897; C:external side of plasma me
GO:0016021; C:integral to membrane; TAS.
GO:0005515; F:protein binding; IT.
GO:0030183; P:B-cell differentiation; IM
GO:0042100; P:B-cell proliferation; IMP.
GO:0030217; P:T-cell differentiation; IMP.
GO:0042908; P:T-cell proliferation; IMP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       688
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IPR000387; TYR phosphatase.
IPR000242; TYr PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Signal.
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; PTPc_motif.
; TYR_phosphatase.
; TYr_PP.
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CD45 protein
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and Ly5
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Last annotation update)
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Pred. No. 4.3
D; Mismatches
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W; 25C3CB61AF4350CE CRC64;
                                                                                                                                                                                                    protein
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id dephosphorylation;
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                                                                                                                                                                                                  primate
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                                                                                                                                                                                                      context:
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Aotinae; Aotus
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OCC PRICE PR
RESULT 10
CD45_HUMAN
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Best Local S
Matches 9
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Best Local S
Matches 9
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SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00194; PTPC; motif; 2.

PROSITE; PS50083; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           IEA.

InterPro; IPR003961; FN_III.

InterPro; IPR003957; FN_III-like.

InterPro; IPR003595; PTPC motif.

InterPro; IPR003897, TYR_phosphatase.

InterPro; IPR0003897; TYR_phosphatase.

InterPro; IPR0003897; TYR_phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q6ED62;
25-OCT-2004
25-OCT-2004
25-OCT-2004
CD45.
                                                                                                                                                                                                                                                                                                         PROSITE; PS50853; FNJ; 2.

PROSITE; PS00383; TYR PHOSPHATASE 1; 2.

PROSITE; PS50055; TYR POSPHATASE 2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tissue Antigens 64:165-172(2004).
EMBL; AY445816; AAS06901.1; -
GO; GO:0004725; F:protein tyrosin
GO; GO:0006470; F:protein amino a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aotus nigriceps (Black-headed owl monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                                                                                      SMART; SM00060;
SMART; SM00194;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A. PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q6ED62
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                vs. human.";
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"Comparative analysis of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        9
                                                                                             668
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PF00102;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  -
                                                                                                                                                                            Similarity 9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ATTHOUTA
                                                                                        YILIHQALV 907
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; Y_phosphatase;
; O0; PRTYPHPHTASE.
0; FN3; 2.
                                                                                                                                                                                                                                                                                                                                                                                             PTPc; 2.
PTPc_motif; 2.
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                                                                                                                                                                                                                                                                     AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                             FN3; 2
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                                                                                                                                                                                                                                                                   146586 MW;
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                                                                                                                                                                                                   100.0%; Score 44;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ., Patarroyo M.E.;
CD45 protein in p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Created)
Last seq
Last ann
                                                                                                                                                                               <u>,</u>
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Pred. No.
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                                                                                                                                                                               Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      sequence update)
annotation update)
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                                                                                                                                                                                                                                                                     9BB023EBF4BC1165 CRC64;
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                                                                                                                                                                                                   4.3;
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                                                                                                                                                                                                                     DB 2; Length 1303;
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Aotinae; Aotu
                                                                                                                                                                               <u>,</u>
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Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
"Distinct functional roles of the two intracellular phosphatase lomains of the receptor-linked protein tyrosine phosphatases LCA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE-89017162; PubMed=2845400;
Charbonneau H., Tonks N.K., Walsh K.A.,
"The leukocyte common antigen (CD45): a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     TISSUE-Lymphocytes;
MEDLINE=88061067; PubMed=2824653;
Streuli M., Hall L.R., Saga Y., Schlossman S.F., Saito H.;
"Differential usage of three exons generates at least five different mRNAs encoding human leukocyte common antigens.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CD45_HUMAN STANDARD; PRT; 1304 AA P08575; Q16614; Q9H0Y6; O1-AUG-1988 (Rel. 08, Created) 10-CCT-2003 (Rel. 42, Last sequence update) 05-JUL-2004 (Rel. 44, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hall L.R., Streuli M., Schlossman & "Complete exon-intron organization antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                         -!- CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protein tyrosine phosphatase.";
Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=89009812;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antigen)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ralph S.J., Thomas M.L., Morton C.C., Trowbridge I.S.;
"Structural variants of human T200 glycoprotein (leukocyte-common
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. (ISOFORM 2), AMEDLINE=87275816; PubMed=2956090;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  MUTAGENESIS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE OF 191-1304 FROM
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           PTM: Heavily N- and O-glycosylated.

SIMILARITY: Belongs to the protein-tyrosine phosphat Receptor class 1/6 subfamily.

SIMILARITY: Contains 2 fibronectin type III domains.

SIMILARITY: Contains 2 protein-tyrosine phosphatase DATABASE: NAME-PROW; NOTE-CD guide CD45 entry;

WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                              tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH (By similarity)
SUBCELLULAR LOCATION: Type I membrane protein.
ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                                                              FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, which contains the substrate specificity of
                                                                                                                                                                     Name=1
                                                                                                                                                                                  Event=Alternative splicing; Named Comment=At least 8 isoforms are
                                                                                                                       IsoId=P08575-2; Sequence=VSP_007780;
                                                                                                                                                     IsoId=P08575-1; Sequence=Displayed;
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(EC 3.1.3.48) (L-CA) (CD45 antigen)
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GlycoSulteDB; PO8575; -.

Genew; HGNC:9666; PTPRC.

MIN; 151460; -.

GO; GO:0005887; C:integral to plasma membrane; TJ
GO; GO:0005801; F:transmembrane receptor protein
GO; GO:0005001; F:transmembrane receptor linked s:
InterPro; IPR003961; FN III.

InterPro; IPR003961; FN III.-like.
InterPro; IPR000397; TYR phosphatase.
InterPro; IPR000342; Tyr_PP.

Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

PFANTIS; PR00700; PRTYPHPHTASE.
PFANTIS; PR00700; PRTYPHPHTASE.
PROSITE; PS00383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS00383; TYR_PHOSPHATASE_7; 2.

PROSITE; PS0056; TYR_PHOSPHATASE_7; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS0056; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS0055; TYR_PHOSPHATASE_PTP; 2.
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EMBL; W23492; AAD15273.2
EMBL; W23496; AAD15273.2
EMBL; W23466; AAD15273.2
EMBL; W23466; AAD15273.2
EMBL; W23469; AAD15273.2
EMBL; W23469; AAD15273.2
EMBL; W23470; AAD15273.2
EMBL; W23471; AAD15273.2
EMBL; W23472; AAD15273.2
EMBL; W23473; AAD15273.2
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EMBL; W23476; AAD15273.2
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EMBL; W23477; AAD15273.2
EMBL; W23478; AAD15273.2
EMBL; W23479; AAD15273.2
EMBL; W23480; AAD15273.2
EMBL; W23481; AAD15273.2
EMBL; W23481; AAD15273.2
EMBL; W23486; AAD15273.2
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EMBL; W23487; AAD15273.2
EMBL; W23488; AAD15273.2
EMBL; W23489; AAD15273.2
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or send an email +
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Leukocyte common antigen.
Extracellular (Potential).
Potential.
(Yotoplasmic (Potential).
Fibronectin type-III 1.
Fibronectin type-III 2.
Fibronectin tyrosine phosphatase 1
Protein-tyrosine phosphatase 2
Protein-tyrosine intermediate.
Phosphocysteine intermediate.
Phosphocysteine intermediate (
psimilarity).
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; Signal; T-cell;
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EMBL; M23148; 1
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Mammalia; E
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M23148; AAA39418.1; J

M23149; AAA39418.1; J

M23150; AAA39418.1; J

M23151; AAA39418.1; J

M23153; AAA39418.1; J

M23153; AAA39418.1; J

M23156; AAA39418.1; J

M23156; AAA39418.1; J

M23154; AAA39418.1; J

M23135; AAA39418.1; J

M23134; AAA39418.1; J

M23133; AAA39418.1; J

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common antigen (L-CA) (Fragment).
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264:6220-6229(1989)
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N-linked (Gl
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Pred. No. 4.3
); Mismatches
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P (in Ref. 1).
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Best Local S
Matches 9
                                                         A Okumura M., Matthews R.J., Robb B., Bork P., Thomas M.L.;
Submitted (AUG-1995) to the EMBL/GenBank/DDBJ databases.
R EMBL; U34750; AAB01087.1; -.
R PIR; T43148; T43148.
R HSSP; P18052; 1YFO.
R GO; GO:0004725; F:nydrolase activity; IEA.
R GO; GO:0004725; F:pyctein tyrosine phosphatase activity; IR
R GO; GO:000470; P:protein amino acid dephosphorylation; IEJ
R GO; GO:0006470; P:protein amino acid dephosphorylation; IEJ
R GO; GO:0006470; P:protein amino acid dephosphorylation; IEJ
R GO; GO:0006470; P:protein amino acid dephosphorylation; IEJ
R SMART; SM00060; FN3; 2.
R SMART; SM00194; PTPC; 2.
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GO; GO:0006470; F:protein amino acid dephosphorylation; IEA.
InterPro; IPR000381; FM III.
R InterPro; IPR000381; TM Dhosphatase.
R InterPro; IPR000242; Tyr_PP.
R InterPro; IPR000242; Tyr_PP.
R Pfam; PF00102; Y_phosphatase; 2.
R Pfam; PF00102; Y_phosphatase; 2.
R PRINTS; PR00700; PRTYPHPHTASE.
R SMART; SM00060; FN3; 2.
R PROSITE; PS50056; FN3; 2.
R PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
R PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
R PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q91054;
01-NOV-1996
01-NOV-1996
                                                                                                                                                                                                                                                                                                                                                                             CD45 homolog.
Heterodontus francisci (Horn shark).
Bukaryota; Metazoa; Chordata; Cranik
Elasmobranchii; Galeomorphii; Heterodontidae; Heterodontus.
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PROSITE; PS50853; FN3; 1.
PROSITE; PS00383; TYR_PHOSPHATASE_1;
PROSITE; PS50056; TYR_PHOSPHATASE_2;
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                                                                                                                                                                                                                                                                              Robb B., Bork P., Thomas M.L.;
e EMBL/GenBank/DDBJ databases.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Last sequence update)
Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                          Craniata; Vertebi
Heterodontoidea;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 44; DB 2;
Pred. No. 4.4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRT;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                        activity;
                                                                                                                                                                                                                                                                                                                                                                                                              Heterodontiformes;
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RESULT 13
Q918F0
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Q918F1
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   SAFFFFF
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Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                            Query Match
Best Local S
Matches 8
                                                                                                                                                                                                                                                                                                                                                                                                                 Diaz del Pozo E.M., Beverley P.C., Timon M.;

Submitted (JUN-1999) to the EMBL/GenBank/DDBJ databases.

REMBL, AJ24430; CAB96212.1; - ...

REMBL, AJ24312.1; CAB96212.1; - ...

REMBL, AJ241312.1; CAB9621.1; - ...

REMBL, AJ241312.1; CAB96212.1; - ...

REMBL, AJ241312.1; CAB96212.1; - ...

REMBL, AJ241312.1; CAB96212.1; CA
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Q918F0,
01-OCT-2000 (TrEMBLrel. 1
01-OCT-2000 (TrEMBLrel. 1
01-MAR-2004 (TrEMBLrel. 2
                                                                         Q918F1;
Q918F1;
01-OCT-2000
                                                                                                                                                                                                                                                                                                                                                                                     Hydrolase
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
Hydrolase.
SEQUENCE 1200 AA; 135372 MW; EF6CB
CD45 precursor (EC 3.1.3.48).
Name=PTPRC;
Fugu rubripes (Japanese pufferfish)
                                     01-OCT-2000 (TrEMBLrel. 15,
01-OCT-2000 (TrEMBLrel. 15,
01-MAR-2004 (TrEMBLrel. 26,
CD45 precursor (EC 3.1.3.48)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pugu rubripes (Japanese pufferfish) (Takifugu rubripes).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Euteleostei; Neoteleostei;
Acanthomorpha; Acanthopterygii; Percomorpha; Tetraodontiformes;
Tetradontoidea; Tetraodontidae; Takifugu.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Name=PTPRc;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CD45 (EC 3.1.3.48).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=31033;
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8; Conserv
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8; Conser
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                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                                                     PRELIMINARY;
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88.9%;
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26,
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Last
                                                                                                                                                                                                                                                                                                                                                                                     MW; 6CB711EFF5797555 CRC64;
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Last annotation updat
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                                                                                                                                                                                                                                                                                                                             Score 41;
Pred. No.
                                                                                                                                                                                                                                                                                                              Mismatches
                                                           sequence update) annotation updat
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   (Takifugu rubripes).
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17;
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25-OCT-2004
25-OCT-2004
25-OCT-2004
MEDLINE-21848401; PubMed=11859360; DOI=10.1038/nature724; MEDLINE-21848401; PubMed=11859360; DOI=10.1038/nature724; Mood V., Gwilliam R., Rajandream M.A., Lyne R., Lyne R., Stewart A., Sgouros J., Peat N., Hayles J., Bakker S., Basham D., Bowman S., Brooks K., Brown D., Brown S., Chillingworth T., Churcher C.M., Collins M., Connor R., Cronin A., Davis P., Feltwell T., Fraser A., Gentles S., Goble A., Hamlin N., Harris D., Hidalgo J., Hodgen G., Holroyd S., Hornsby T., Howarth S., Huckle E.J., Hunt S., Jagels K., James K., Jones L., Jones M., Leather S., McDonald S., McLean J., James K., Jones M., Leather S., McDonald S., McLean J., Oliver K., O'Neil S., Pearson D., Quail M.A., Rabbinowitsch E., Rutherford K., Rutter S., Saunders D., Seeger K., Sharp S., Skelton J., Simmonds M., Squares R., Squares S., Stevens K., Taylor R.G., Tivey A., Walsh S.V., Warren T., Whitehead S.
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SMART; S
SMART; S
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Diaz del Pozo S.M., Beverley
Submitted (JUN-1999) to the
EMBL; AJ243429; CAB96211.1;
HSSP; P18052; 1YFO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Schizosaccharomyces pombe (Fission yeast).
Eukaryota; Fungi; Ascomycota; Schizosaccharomycetes;
Schizosaccharomycetales; Schizosaccharomycetaceae;
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PROSITE; BS50853; FM3; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR PHOSPHATASE PTP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           GO; GO:0016787; F:hydrolase activity; GO; GO:0004725; F:protein tyrosine ph GO; GO:0006470; P:protein amino acid GO; GO:000670; P:protein acid GO; GO:000670; P:protein amino acid GO; GO:000670; P:protein acid GO; GO:000670; P:protein amino acid GO; GO:000670; P:protein acid GO; 
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A.
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ORFNames=SPBC4F6.16c;
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Pfam; PF00102; Y phosphatase; 2.
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InterPro; IPR008957; FN III-like.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
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les 8; Conserv
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45, Last annotation update)
B precursor (EC 1.8.4.-) (Endoplasmic oxidoreductin
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88.9%;
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EMBL/GenBank/DDBJ databases.
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Pred. No. 17;
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RA Gabel C., Fuchs M., Fritzc C., Holzer E., Moestl D., Hilbert H.,
RA Borzym K., Langer I., Beck A., Lehrach H., Reinhardt R., Pohl T.M.,
RA Borzym K., Langer I., Beck A., Lehrach H., Reinhardt R., Pohl T.M.,
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RA Galibert F., Aves S.J., Xiang Z., Hunt C., Moore K., Hurst S.M.,
RA Galibert F., Aves S.J., Xiang Z., Hunt C., Moore K., Hurst S.M.,
RA Daga R.R., Cruzado L., Jimenez J., Sanchez M., del Rey F., Benito J.,
RA Dominguez A., Revuelta J.L., Moreno S., Armstrong J., Foreburg S.L.,
RA Daga R.R., Cruzado L., Jimenez J., Sanchez M., del Rey F., Benito J.,
RA Cerutti I., Lowe T., McCombie W.R., Paulsen I., Potashkin J.,
RA Cerutti I., Lowe T., McCombie W.R., Paulsen I., Potashkin J.,
RA Shpakovski G.V., Ussery D., Barrell B.G., Nurse P.;
RI The genome sequence of Schizosaccharomyces pombe.";
RI Nature 415:871-880(2002).
CC endoplasmic reticulum to produce disulfide bonds. Acts by
coxidizing directly pdil isomerase that oxidizes proteins in the
CC coxidizing directly pdil isomerase through a direct disulfide
coxidizing directly pdil isomerase through a direct disulfide
coxidize all pdi related proteins suggesting that it can
discriminate between pdil and related proteins. Its reoxidation
CC discriminate between pdil and related proteins. Its reoxidation
cc significant proportion of reactive oxygen species (ROS) in the
CC ecll, threeby being a source of oxidative stress (By similarity).
C. -i- CUBNIT: May function both as a monomer and a homodimer (By
CC similarity).
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Best Local S
Matches 7
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CARBOHYD
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        entities requires a license agreement (Son send an email to license@isb-sib.ch).
                                                                                                                             SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                           SIGNAL
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                                                                                                                                                                                                                                                                                                                                                                                                                         InterPro; IPR007266;
Pfam; PF04137; ER01;
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-!- SIMILARITY: Belongs to the EROs family.
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SUBCELLULAR LOCATION: Endoplasmic reticulum
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77.8%;
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Redox-active (By similarity).
N-linked (GlcNAC. . .) (Potenti
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SUMMARIES

Result

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ALIGNMENTS

RESULT 1 ABG31983 Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; C antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-CM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic; 30-NOV-2000; 2000WO-GB004566 06-JUN-2002. WO200244207-A1 Homo sapiens. Human CD45 HLA-binding peptide, huCD45/900. 05-NOV-2002 ABG31983; ABG31983 standard; peptide; 9 haematopoietic; malignant. (first entry) A

30-NOV-2000; 2000WO-GB004566

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

Stauss HJ, Amrolia ŗ,

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytocoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
ADJ92680
ID ADJ92
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Matches
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26-FEB-1991;
10-FEB-1993;
23-MAY-1995;
                                                                                                                                                                                                        Identifying a compound that modulates the phosphotyrosine activity of a polypeptide by incubating the compound with polypeptide, which is in pure form, in a membrane preparat whole cell.
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phosphotyrosine phosphatase; cancer; diabetes; hu
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1.8e+06;
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                                                                                                                                                                                                                                tyrosine phosphatase and with the preparation or in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
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The invention relates to receptor-type protein tyrosine phosphatase (RPTP) and its corresponding nucleic acid. The invention also relates a method for identifying a compound that modulates the phosphotyrosine

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04-DEC-1996;
22-JAN-1999;
The invention relates to an isolated RNA encoding a protein tyrosine phosphatase designated as PTPH1 appearing as ADD22992. Also included is a retroviral vector comprising the RNA. The RNA is useful for treating or preventing a condition in which abnormally high levels of phosphotyrosine occur in a mammalian cell (which involves introducing into the mammalian cell and agent which comprises DNA or RNA encoding all or a portion of a PTPH1, under conditions sufficient to express PTPH1 where the polypeptide can catalyse dephosphorylation of tyrosyl residues that are phosphorylated through action of a protein tyrosine kinase. The RNA is also useful for reversing a malignant phenotype of a mammalian cell which is associated with tyrosyl phosphorylation catalysed by a protein tyrosine kinase. The DNA or RNA is delivered via a recombinant retrovirus or a recombinant vaccinia virus. At least one tyrosyl residue that is dephosphorylated by the protein tyrosine phosphatase polypeptide can be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   domain (PD) invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phosphatase activity. The method is useful for identifying a compound that modulates the phosphotyrosine phosphatase activity of a polypeptide and for identifying susceptibility to cancer, diabetes or other diseases associated with alterations in cellular phosphotyrosine metabolism. The present sequence is human leukocyte common antigen (LCA) phosphatase domain (PD) 1. This sequence is used to illustrate the method of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; enzyme; protein tyrosine phosphatase; PTPH1; cytostatic;
gene therapy; retroviral vector; phosphotyrosine; pp60(V-src);
breast cancer; leukaemia; CD45-D1.
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01-MAR-1991;
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                                                                                                                                                                                                                                             Disclosure; Fig
                                                                                                                                                                                                                                                                                            New isolated
                                                                                                                                                                                                                                                                                                                                                                                           (COLD-) COLD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
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llarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                           RNA encoding for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2002US-00293231.
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96US-00759536.
99US-00235251.
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91US-00663579.
                                                                                                                                                                                                                                            4B; 12pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phosphatase,
                                                                                                                                                                                                                                                                           protein tyrosine phosphatase designated malignancies such as breast cancer, leul
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ; Score 44; DE; Pred. No. 1.3
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                                                                                                                                                                                                                                                                                leukemia.
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RESULT 4
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                                                  RESULT 5
AAG78272
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Best Local S
Matches 9
                                                                                                                                                                                                                                                                                        The present invention provides substrate trapping mutant protein tyrosine phosphatases (PTPs). They can be used to reduce the activity of tyrosine phosphorylated proteins and to screen for modulators capable of altering the binding of protein tyrosine phosphatases to their substrate. These may be used in disease diagnosis and treatment
                                                                                                                                                                                                                                                                                                                                                                                                                               New substrate trapping mutant protein tyrosine phosphatases which the wild type PTP catalytic domain invariant aspartate with an unphosphorylated amino acid, useful in gene therapy.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          aberrantly phosphorylated by pp60(V-src). The RNA is useful for treating or preventing malignancies such as breast cancer and leukaemia. The present sequence is a PTP similar to PTPH1.
 AAG78272;
                              AAG78272 standard; protein; 309
                                                                                                                                                                                                                                                           Sequence 253 AA;
                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; Fig 1; 109pp; English.
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16-JUN-1999;
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                                                                                                                                                                                      Local Similarity nes 9; Conserv
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                                                                                                                       YILIHQALV 243
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                                                                                                                                                                                        Conservative
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99US-00334575.
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                                                                                                                                                                                                      Score 44; DB
Pred. No. 1.4;
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Pred. No. 1.4
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The invention relates to identifying agents which alter the interaction between a protein tyrosine phosphatase (PTP) and a tyrosine phosphorylated polypeptide using fluorescence energy signals. The methods are useful for performing screening assay to identify agents that alter PTP binding to and PTP-mediated catalytic dephosphorylation of phosphotyrosine peptide substrates. The present sequence is that of a catalytic domain of a PTP for comparison with human PTP1B (AAG78262)
14-FEB-2003;
14-MAR-2003;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Screening assays to identify agents that alter protein tyrosine phosphatase (PTP) binding to, and PTP-mediated catalytic dephosphorylation of phosphotyrosine peptide substrates.
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                                                                17-FEB-2004; 2004WO-US004730
                                                                                                              02-SEP-2004
                                                                                                                                                       WO2004074320-A2
                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                 Human; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                        18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                    ABO84454;
                                                                                                                                                                                                                                                                                                                                                                                                                                           ABO84454 standard; protein;
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                                                                                                                                                                                                                                          lymphoma;
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                                                                                                                                                                                                                                                                                                          cancer-associated protein HP13-011.1.
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2003US-00367094.
2003US-00388838.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that CC complement), an isolated antibody, (or its antigen binding fragment) that CC binds to the above polypeptide, a hybridoma that produces the above antibody and a pharmaceutical excipient, a kit for detecting the above cantibody and a pharmaceutical excipient, a kit for detecting the presence or absence of cancer cells in an complement of cancer cells in an electronic library comprising the above complement of cancer cells in an electronic library comprising the above complement of cancer cells in an electronic city or for a bioactive agent capable of modulating complement of cancer anticancer activity or for a bioactive agent capable of modulating cancer cell of cancer in a test cell sample, a complement of cancer cells in a method for inhibiting the expression of complement of cancer. The present sequence is a human cancer cell ymphoma and continuous complement capable of the printed cancer of the printed cancer of the printed of the sequence of the printed of cancer of the printed of the complement of the printed of the cancer of the printed of the cancer of the printed of the complement of the printed of the cancer of the printed of the cancer of the ca
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            associated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above mentioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                              Human myocardial infarction-associated gene derived protein, SEQ ID 1040
                                                                                                        18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 764 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             claim 18; seqid 145; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2004-652914/63.
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                                                                                                                                                                                                              ADQ39377 standard; protein; 960
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               diagnosing,
kemia, or in
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         Conservative
                                                                                                        (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               preventing or treating cancers, especially screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score 44; DB 8; Length 764; Pred. No. 4.9;
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RESULT 8
ADL16236
ID ADL1
XX
AC ADL1
XX

ADL16236 standard; protein; 962

AA

ADL16236;

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556

YILIHQALV 564 YILIHQALV 9 Matches

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<u>,,</u>

Gaps

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Note:

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The invention relates to a novel method for identifying an individual who CC chas an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC the specification or its isolated nucleic acid molecule comprising at least CC further comprises; an isolated nucleic acid molecule comprising at least CC entriguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an antibody that specificatly binds to the polymetide or its antigen-binding CC fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; and a enzyme; a method of detecting an SNP in a myocardial infarction. The novel detection method has cardiant activity. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction. This composition for treating or preventing myocardial infarction.
                                          Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                   Sequence 960
                                                                                                                                            sequence represents the protein of a human myocardial infarction-
associated gene containing one or more SNP's of the invention. Note
sequence was not shown in the specification. The sequence has come
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 10; SEQ ID NO 1040; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2004-533949/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cardiant; gene therapy; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (APPL-)
                         Local
                                                                                                                         electronic sequence listing downloaded from the WIPO website.
  Similarity
9; Conserv
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100.0%; ilarity 100.0%; Conservative 0;
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    Score 44; DE
Pred. No. 6.3
); Mismatches
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                         6.3;
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                                          Length 960;
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RESULT 9
ABU05246
ID ABU0
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AC ABU0
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DT 29-J
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify sugents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); medicine, for treating abnormal cell proliferation or growth (cancer);
                                                                                                                                                                                                                                                                                                                                           guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          screening for specific modula cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs: host disease; autoimmune disease; allergy; metabolic disorder;
                 29-JAN-2003
                                               ABU05246;
                                                                                ABU05246
                                                                                                                                                                                                                                                                                              Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Disclosure; SEQ ID NO 85; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying reversibly oxidized protein tyrosine phosphatase, ususcreening for specific modulators, potential agents for treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB; ADL16235.
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                              962
                                                                              standard;
                                                                                                                                                                                             YILIHQALV 9
                                                                                                                                                              YILIHQALV 568
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ilarity 100.0%;
Conservative
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Pred. No. 6.3
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RESULT 10
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AC ABU05
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Matches
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01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypuloma. Colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an accompany of the contraction of the polypeptide and polypeptide and polypeptides are also useful for screening agents for treating the above mentioned diseases. This sequence represents an accompany of the polypeptide and polypeptide and polypeptide and polypeptide and polypeptides are also useful for screening agents for treating the above mentioned diseases. This sequence represents an accompany of the polypeptide and poly
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                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expressed protein tag (EPT) isolated from human tissue for tr
profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly
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21-MAY-2001;
                                                                                                                     ABU05239
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ftp.wipo.int/pub/published_pct_sequences
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WO200278524-A2
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9; Conser
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                                                                                                                   standard; protein; 1114
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; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                       100.0%; ilarity 100.0%; Conservative
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Pred. No. 7.4;
0; Mismatches
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29-JAN-2003 ABU05239;

(first entry)

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Human expressed protein tag (EPT) #1905

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RESULT 11
ABU05240
ID ABU05
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AC ABU05
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01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an interest of the color of the co
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        expressed protein tag (EPT) isolated from human tissue for transfiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly a
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                            29-JAN-2003
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor.
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21-MAY-2001;
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                                                                          ABU05240;
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                                                                                                                     standard;
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2001US-0292544P.
2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
2002US-0358985P.
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cc fragment of a kinase, protease, protease inhibitor, cramsporter, cytoskeletal protein, receptor or transcription factor. The collection of the purified solution and composition for eliciting in a composition and composition for eliciting in a composition and composition for eliciting in a composition of the purified composition for eliciting in a composition for the purified composition of the purified composition of the purified this collection or class II MHC-binding polypeptide. The polypeptide is also collection cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, cutreating the above mentioned diseases. This sequence represents an composition of the composition but was obtained in electronic format directly from MIPO at the collection but was obtained in electronic format directly from MIPO at concerning compositions and composition but was obtained in electronic format directly from MIPO at concerning composition and composition of the collection but was obtained in electronic format directly from MIPO at concerning composition and composition of the collection but was obtained in electronic format directly from MIPO at concerning composition and concerning composition for many composition and concerning composition and concerning composition for many composition for the content of the concerning composition for many composition for many composition for the content content composition for many composition for many composition for many composition for many composition composition for many compo
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                   Sequence 1143 AA;
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                      Similarity
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                        Score 44;
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Human expressed

protein tag (EPT)

#1911.

phosphatase;

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RESULT 13
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                           myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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21-MAY-2001; 2001US-0292544P.
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04-DEC-2001; 2001US-0336780P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                   06-MAY-2004
                                                    ADL16232;
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                                                                                                                                                                                                                                                                                                               Sequence 1143
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                                                                                                                                                                                                                                           Similarity 9; Conserv
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                                                                                   protein; 1143
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The invention relates to a method for identifying a protein tyrosine CC phosphatase (PTP) that is reversibly oxidized in a cell by: (i) CC subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP CC anaerobically, in presence of a sulfhydryl-reactive agent (II) that CC irreversibly modifies the thiol group of an invariant cys in the active city of the property and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where CC dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly conditions, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune diseases; allergy or other cc immunosuppressed states; metabolic disorders and cell-cycle invention
                                                                                                                 RESULT 14
ADQ18845
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          Human soft tissue sarcoma-upregulated protein
                                          26-AUG-2004
                                                                                                  ADQ18845 standard;
                                                                                                                                                                                                                                                                                                 Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure; SEQ ID NO 81; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                             invention
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                                                                                                  protein; 1143 AA
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Matches 9
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                                                                                                                                                                                                                                              Alzheimer's, Parkinson's disease, Huntington's disease; haemostatic, amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening.
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                                                                                                  WO200153312-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                               polypeptide SEQ ID NO 5979.
                                                                                                                                                                                                                                                                                                                                                                                 nootropic; immunosuppressant; cytostatic; gene therapy;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity 9; Conserv
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Pred. No.
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RESULT 16
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Best Local S
Matches 9
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21-JAN-2000;
25-APR-2000;
20-JUN-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                       immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form
                                                                        Translational profiling; expressed protein tag; E protease; protease inhibitor; transporter; cytosk receptor; transcription factor; cancer; MIC; major histocompatability complex; myeloma; colon.
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N-PSDB; AAI60204.
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                                                                                                                                        Human
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                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to human nucleic acids (AAI57798-AAI61369) encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Example 2; SEQ ID NO 5979; 10078pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Novel nucleic acids and polypeptides, useful for treating disorders such
                                    Homo sapiens
                                                             adenocarcinoma;
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Wang Z,
Goodrich
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2000US-00598042
2000US-00620312
2000US-00653450
2000US-00652191
2000US-00693036
2000US-00693036
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Wehrman T,
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Xu C,
IC RT;
                                                                                                                                        (EPT) #1908
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Pred. No. 7.7;
0; Mismatches
                                                            lymphoma;
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                                                                                                 tag; EPT; kinase;
cytoskeletal prote
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Yang Y,
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Zhang J,
                                                                         gastric cancer;
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                                                                                                               phosphatase;
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I, Zhao (
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WO200278524-A2

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RESULT 17
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ID ABO84453
AC ABO84
XX ABO84
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XX MOUSE
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor. The transporter, cytoskeletal protein, record or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for creating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1149 AA;
 17-FEB-2004; 2004WO-US004730.
                                  02-SEP-2004
                                                                  WO2004074320-A2
                                                                                               Mus musculus
                                                                                                                                               Mouse; cancer-associated protein; cytostatic; cancer; leukaemia;
                                                                                                                                                                                                                18-NOV-2004
                                                                                                                                                                                                                                                                             ABO84453 standard; protein; 1157 AA
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                                                                                                                                                                             cancer-associated protein MP13-011.1.
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                                                                                                                                   CAP
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                                                                                                                                                                                                              (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                             100.0%;
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RESULT 18 ADR39747

ADR39747 standard;

protein; 1192

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18-NOV-2004 ADR39747;

(first entry)

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The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-associated proteins. Also included are an expression vector comprising the above recombinant nucleic acid or expression vector comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least no contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above nentioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 25 complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above composition all antibody, a pharmaceutical composition comprising the above contibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer confiditional, a method for inhibiting growth of cancer cells in an individual, an electronic library comprising the above polypeptide (or their fragments), methods of screening concertivity of a CA protein (CAP), methods for detecting cancer cells in an individual, an electronic library comprising the above of associated with expression of a polypeptide in a test cell sample, a concertivity of a CA protein (CAP), methods for detecting cancer cells in an individual, an electronic library comprising the above of cancer cells in an individual, an electronic library comprising the above of screening concerns of a polypeptide of modulating the associated with expression of a polypeptide in a test cell sample, a concern of the concerns of 
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14-MAR-2003;
15-APR-2003;
13-JUN-2003;
15-SEP-2003;
15-DEC-2003;
                                                                                                                                                                                                                                        cancer. The present sequence is a mouse CAP protein sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                         Sequence 1157
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    disclosure; seqid 142; 310pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB;
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755 YILIHQALV 763
                                         1 YILIHQALV 9
                                                                                   Similarity 9; Conserv
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                                                                                      Conservative
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2003US-00663431.
2003US-00737318.
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2003US-00388838
2003US-00417375
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                                                                                                          Score 44;
Pred. No.
                                                                                        Mismatches
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                                                                                                                               DB 8;
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The present sequence represents the human kinase and phosphatase protein (KPP), designated KPP-20. The human KPP sequences from the present invention have cytostatic, antiarteriosclerotic, anti-HIV, antiallergic, nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, and can be used in gene therapy. The human KPP proteins and polynucleotides can be used in gene therapy. The treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. proliferative (e.g. cancer, atherosclerosis), neurological (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polymerides and compounds or nucleily high the expression of the target polymerides.
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Tha SD, Lee SY, 11...
The Yang J,
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N-PSDB; ADR39793.
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19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
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                                                                                                                                                                                                                                                                                              Sequence 1192 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Claim 1; SEQ ID NO 20; 299pp; English.
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788
                                                                         1 YILIHQALV 9
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Pred. No.
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RESULT 19 ADQ39378 ID ADQ39 XX

ADQ39378 standard; protein; 1219

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cc comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's CC entripolation where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least cc excit sequences given in the specification or its complement and encoding any one of the amino CC enditsing an amino acid sequence given in the specification; an antipolated polypeptide cc that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length, a kit for detecting an SNP in a nucleic acid, comprising the CC polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the CC method for identifying an agent useful in treating or preventing CC method for identifying an agent useful in treating or preventing CC method is useful in identifying an individual who has cardiant activity. CC method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
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                                                                                                              Matches
                                                        Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a novel method for identifying an individual has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                              Sequence 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           N-PSDB; ADQ38550
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Myocardial infarction; detection; single
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human myocardial infarction-associated gene derived
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ADQ39378;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             18-NOV-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10; SEQ ID NO 1041; 145pp;
 1 YILIHQALV 9
                                    9;
                                                        Similarity
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                                      Conservative
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                                                                                                              AA;
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                                      0;
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Pred. No. 8.2;
                                        Mismatches
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RESULT 21
AAW89347
ID AAW89
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AC AAW89
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AAW44729
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  17-OCT-2003
                                             AAW89347;
                                                                                     AAW89347 standard; protein; 1237 AA.
                                                                                                                                                                                                                                                                                                                                                                                          Sequence 1237 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 1; Col 31-40; Sipp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        diagnosis; cancer; immune system disorder; ligand.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Chicken protein tyrosine phosphatase-lambda protein
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12-MAY-1998
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RESULT 22
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                                                                                                                                                                                                                                                                                                                                                                                                                           human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; adipogenesis; hypertension; cardiovascullar disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present sequence represents chicken transmembrane protein tyrosine phosphatase lambda (ChPTP-lambda). (Updated on 17-OCT-2003 to standardise OS field)
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N-PSDB; AAV81897.
                      Chada K,
                                                                                                                           29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                05-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human adipocyte specific PTPase receptor type C protein SeqID 541
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             ADM67187;
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                                                                            (HMGE-) HMGENE INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity 100.0%; Score 44; Similarity 100.0%; Pred. No. 9; Conservative
                      Chouinard
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                      Sayed AMD,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                leptin; ob; diabetes;
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2004-143846/14.

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RESULT 23
ADP12966
ID ADP12
XX
ADP122
XX
ADP12
XX
ADP12
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ADP12
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Crant
CW
ADF12
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Best Local
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cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present
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Diagnosing or monitoring transplant rejection, pancreas, pancreatic islet, lung, bone marrow
                                                                                                                                                                                                                                                                                                        24-APR-2002; 2002US-00131831.
20-DEC-2002; 2002US-00325899.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1256 AA;
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                                                                                          WPI; 2004-400724/37
                                                                                                                                                     Wohlgemuth J,
Rosenberg S;
                                                                                                                                                                                                                                                                                                                                                                                               24-APR-2003; 2003WO-US012946
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Protein encoding referenece mRNA sequence #51.
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                                                                                                                                                                                                                                                (EXPR-) EXPRESSION DIAGNOSTICS INC
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              different genotypes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
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                                                                                                                                                                                        Woodward
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Pred. No.
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                                                                                                                                                                                    Prentice
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   or stem cell
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                                                                                                                                                                                    Morris
   kidney, liver, transplant
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RESULT 24
ADQ39376
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, xenotransplant rejection or mechanical organ replacement rejection, in a individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lupus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered expression in renal transplantation and expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             methods, s
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           rejection, the genes.
                                                                               Identifying an individual who has an altered risk for myocardial infarction by detecting a single nucleotide the individual's nucleic acids.
                                                                                                                                                                                                                                       20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-ADPR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The present invention relates to diagnosing or monitoring tran rejection, e.g. cardiac or kidney transplant rejection, in an comprises detecting the expression level of one or more genes.
                                                                                                                                                                                                                                                                                                                                                                                                                         Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Human myocardial infarction-associated gene derived protein, SEQ ID 1039
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ADQ39376 standard; protein; 1258 AA
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                                                                                                                                                      WPI; 2004-533949/51.
                                                                                                                                                                                Cargill
                                                                                                                                                                                                                                                                                                            22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                                                                                                                                                                                                      WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                                                                                                                                            (APPL-) APPLERA CORP.
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                                                                                                                                          ADQ38548.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           system and kits are useful
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          in an individual, comprises detecting the expression level
                                                                                                                                                                                   Devlin
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                                                                                                                                                                                   Iakoubova
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Pred. No. 8.5;
Mismatches
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                                                                                              developing
polymorphism
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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of

Claim 10; SEQ ID NO 1039; 145pp; English.

Claim 10; SEQ ID NO 1042; 145pp; English

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RESULT 25
ADQ39379
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cc comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding cc that specifically binds to the polypeptide or its antigen-binding cc fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in clength; a kit for detecting an SNP in a nucleic acid, comprising the cc polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a cc method for identifying an agent useful in treating or preventing cc myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The cc method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. When this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
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Best Local (
Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human myocardial infarction-associated gene derived protein, SEQ ID 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ADQ39379 standard; protein; 1267 AA
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                                                                                                                                                                                                                                                                                                                                                                         20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0465412P.
30-ABR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         cardiant; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-NOV-2004 (first entry)
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                                                                                                                                                                                                                                    Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO2004058052-A2
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                                                                                                                                    2004-533949/51.
DB; ADQ38551.
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                                                                                                                                                                                                                                    Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
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CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's CC entripuous nucleotides where one of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antiponated polypeptide CC fragment; an amplified polymucleotide containing an SNP given in the specification; an antiponated polypeptide CC fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the composition of detecting an agent useful in treating or preventing CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from a composition of sequence listing down in the specification.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADL16234
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                RESULT 26
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Best Local
                                                                                                                                                                                                                                                                                                                            protein tyrosine phosphatase; rever inducible signalling pathway; cell guest vs. host disease; autoimmune cell-cycle abnormality; enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                The invention relates to a novel method for identifying an individua-
has an altered risk for developing myocardial infarction. The method
comprises detecting a single nucleotide polymorphism (SNP) in any one
the nucleotide sequences given in the specification in the individual
                Tonks NK,
                                                                                                               13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                             cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           06-MAY-2004
                                                                                                                                                                        13-FEB-2003; 2003WO-EP001446
                                                                                                                                                                                                                                                    WO2003068984-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mouse protein tyrosine phosphatase #7.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADL16234 standard; protein; 1291
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1267 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       an electronic sequence listing downloaded from the WIPO website.
                                                       (COLD-) COLD SPRING (CEPT-) CEPTYR INC.
                                                                                                                                                                                                                                                                                          Mus musculus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Similarity 9; Conserv
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                Tzu-Ching
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                                                                          HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         100.0%; Score 44;
100.0%; Pred. No.
                  Z,
                  Cool DE
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                                                                                                                                                                                                                                                                                                                                               reversible oxidation; dephosphorylation; cell proliferation; cancer; mmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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RESULT 27
ABU05243
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XX Trank
KW Troce
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XX Homo
PN W0201
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CC subjecting a sample, including a cell that contains at least one PTP, to
CC conditions that cause reversible oxidation of PTP; (ii) isolating PTP
CC anaerobically, in presence of a sulfhydryl-reactive agent (II) that
CC irreversibly modifies the thiol group of an invariant Cys in the active
CC site of PTP; and (iii) determining, under reducing conditions, the level
CC of dephosphorylation, caused by PTP, of a labelled substrate (III), where
CC dephosphorylation indicates that an active PTP is present. No details
CC of tests for these activities are given. The method is used to identify
CC reversibly oxidized PTP, also to identify agents that; (a) reversibly
CC modify such PTP; or (b) alter inducible signalling pathways in which PTP
CC are involved. These agents are potentially useful, in human or veterinary
CC medicine, for treating abnormal cell proliferation or growth (cancer);
CC guest vs. host disease; autoimmune diseases; altergy or other
CC immunosuppressed states; metabolic disorders and cell-cycle
CC invention.
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                                                                                                                                                28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
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N-PSDB; ADL16233.
      Chicz RM,
                                                                                                                                                                                                                                                                                                                                   28-MAR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    adenocarcinoma;
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                                                                 (ZYCO-) ZYCOS
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      Tomlinson AJ,
                                                                                                                    ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    lymphoma;
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rragment of a kinase, phosphatase, protease, which comprises a creamment of a kinase, phosphatase, protease, protease inhibitor, comporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a command an immunogenic response directed against any of the purified composition for eliciting in a composition, is useful for treating cancer. The polypeptide is also composition for eliciting in a composition of the purified composition of the purified composition for identifying compounds that binds to a naturally processed class I or class II MMC-binding polypeptide. The polypeptides and composition cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, compositions, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, compositions the above mentioned diseases. This sequence represents an composition but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, lymphoma, 
Sequence 1304 AA;
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Query Match Best Local S Matches 900 YILIHQALV 1 YILIHQALV 9 Similarity 9; Conserv 100.0%; Score 44; Dilarity 100.0%; Pred. No. 8. Conservative 0; Mismatches 908 DB (6; Length 1304; 0 <u>.</u> Gaps

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Tra RESULT 28 29-JAN-2003 ABU05241; ABU05241 standard; (first entry) protein; 1304

Human expressed protein tag (EPT) #1907

Translational profiling; expressed protein tag; protease; protease inhibitor; transporter; cytor receptor; transcription factor; cancer; MHC; cytoskeletal prote protein; phosphatase;

protease; protease ________ receptor; transcription factor; cancer; mrv; major histocompatability complex; myeloma; colon cancer; major____inoma; sarcoma; melanoma; lymphoma; leukaemia. gastric cancer;

Homo sapiens.

WO200278524-A2

28-MAR-2002; 2002WO-US009671.

28-MAR-2001; 21-MAY-2001; 08-AUG-2001; 01-OCT-2001; 04-DEC-2001; 20-FEB-2002; ; 2001US-0279495P. ; 2001US-029244P. ; 2001US-0310801P. ; 2001US-0326370P. ; 2001US-0336780P. ; 2002US-0358985P.

(ZYCO-) ZYCOS INC

RM, Tomlinson AJ, Urban RG

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            CC The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide or the antibody that binds to this CC polypeptide. The purified polypeptide or the antibody that binds to this CC colypeptide. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC treating the above mentioned diseases. This sequence represents an CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational CC specification but was obtained in electronic format directly from WIPO at Creating or province in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Best Loc
Matches
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                                                                                                                                                      28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
      Chicz RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     adenocarcinoma;
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                                                                                                                                                                                                                                                                                                                                                                                                                     10-OCT-2002
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                                                              (ZYCO-)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                900
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 YILIHQALV 9
                                                                 ZYCOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              1304 AA;
      Tomlinson
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                                                                                                                     ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (first entry)
                                                                 INC
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   ξ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            100.0%; Score 44; DB 6; Length 1304; 100.0%; Pred. No. 8.8;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0,
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   RG
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>,</u>
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RESULT 30
ADL16230
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ID ADL16230
ID ADL16230
ID Human
XX
Cytog
KW Cytog
KW prote
KW induc
KW induc
KW induc
KW Guest
KW Gell-
XX
Homo
XX
PN W020(
XX
PN 13-F1
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PF 13-F1
PR 12-F1
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PR (COL)
PA (CEP
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N-PS
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypuloma colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanc lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translation profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPC ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                  cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription fac polypeptide is useful as an immunogenic composition for elicitin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                 WPI; 2003-712572/67
                                                                                                                                                                                  13-FEB-2003; 2003WO-EP001446.
                                                                                                                                                                                                                                                                                                                    cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                     Human
                                                                                                                                                                                                                                                                                                                                                                                                                                                      06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 1304 AA;
                                                Tonks NK,
                                                                                   (COLD-)
                                                                                                                                  13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                   21-AUG-2003.
                                                                                                                                                                                                                                                    WO2003068984-A2
                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADL16230;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADL16230 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Example 2;
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                                                                                   COLD SPRING HARBOR LAB
CEPTYR INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Similarity 9; Conserv
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                                                Tzu-Ching
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                    tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       100.0%; Score 44; Di
100.0%; Pred. No. 8.9
tive 0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                    phosphatase
                                                                                                                                                                                                                                                                                                                   enzyme.
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                                                                                                                                                                                                                                                                                                                                                                                                                     #26.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            binds to this
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Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.

SEQ ID

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238pp; English.

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RESULT 31
ADP65158
ID ADP65
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where condephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly condifies such PTP, also to identify agents that: (a) reversibly condifies such PTP, or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle annormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                  autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumatic; antiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; Fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and tre
                                                    WPI; 2003-712740/67.
GENBANK; NP_002829.
                                                                                                                                                 (CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT.
                                                                                                                                                                                     31-OCT-2001; 2001US-0336220P.
                                                                                                                                                                                                                         31-OCT-2002; 2002WO-US035433
                                                                                                                                                                                                                                                                                              WO2003072827-A1
                                                                                                                                                                                                                                                                                                                                Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human protein tyrosine phosphatase, receptor type,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADP65158 standard; protein; 1304 AA
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                                                                                                                                                                                                                                                                                                                                                                      immune; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Local Similarity
mes 9; Conserv
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                                                                                                           Thorton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
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   and treating
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Sequence 1304

AA,

DB 7; Length 1304;

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other than a mouse; diagnosis of rheumatoid arthritis in a mammal; an array or gene chip, specific for rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; diagnosis or efficacy of a candidate drug in vitro for the treatment of collagentinduced arthritis; and reducing the symptoms associated with collagentinduced arthritis; me compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, antigout, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as rheumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, and an immune disease caused by an infectious agent. This sequence reparts and protein sequence relating to the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     patient sample containing mRNA, analysing gene expression using the mRNA that results in a gene expression signature of the mRNA, and using that gene expression signature to diagnose or analyse the autoimmune disease or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention further comprises: a treatment of rheumatoid arthritis; identification of genes for targeting in the treatment of rheumatoid arthritis in a mammal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; Page; 56pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             autoimmune disease or arthritides. The method comprises obtaining
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           relates to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        a novel method for diagnosing and analysing
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Best Local :
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                                        Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          human; adipocyte specific; adipose tissue; high mobility group I-C protein; HMGI-C; ol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human adipocyte specific leukocyte common antigen protein
                                                                                                                                                                                                                                                                                                                    29-JUL-2003; 2003WO-US023684.
                                                                                                                                                                                                                                                                                                                                                                                                  05-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2004011618-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          adipogenesis;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                     (HMGE-) HMGENE INC.
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                                            Chouinard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 44; DB ilarity 100.0%; Pred. No. 8.8; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (first entry)
                                                                                                                                                                                              2002US-0398785P.
2003US-0478206P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; hypertension; cardiovascular disease; anorectic;
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                                            Sayed AMD
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RESULT 33
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Best Local (
                                                                                           14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-003B8838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663331.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      between the white adipose tissue (WAT) or stronal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-
obesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue
WPI; 2004-652914/63
                              Morris
                                                                                                                                                                                                            17-FEB-2004; 2004WO-US004730
                                                                                                                                                                                                                                              02-SEP-2004
                                                                                                                                                                                                                                                                             WO2004074320-A2
                                                                                                                                                                                                                                                                                                                                              Lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                           Human cancer-associated protein HP13-011.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABO84455 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mice of different genotypes.
                                                               (SAGR-) SAGRES DISCOVERY INC
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                              W,
                                                                                                                                                                                                                                                                                                                                                         cancer-associated protein; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       1 YILIHQALV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           l Similarity
9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               YILIHQALV 908
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        100.0%; ilarity 100.0%; Conservative 0;
                             Morris DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID NO 563; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                             (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ΑA;
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                              Malandro MS;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ۰,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 44; DB 8
Pred. No. 8.8;
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                                              cancer; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             0,
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Sequence 1304 AA;

8;

Length 1304;

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The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-cassociated proteins Also included are an expression vector comprising the isolated nucleic acid or expression vector, a microarray for detecting cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above-comprising at least 10 contiguous nucleotides of any of the above-comprising at least 10 contiguous nucleotides of any of the above-comprising at least 10 contiguous nucleotides of any of the above-comprising at least 10 contiguous nucleotides of any of the 95 mentioned nucleotide sequences, an isolated polypeptide (encoded within comprising the above polypeptide, a hybridoma that produces the above nucleotides of the above complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above antibody and a pharmaceutical composition comprising the above comprising the antibody cited above, methods for diagnosing cancer cells (comprising the presence or absence of cancer cells in an individual, a method for inhibiting growth of cancer cells in an individual, a method for inhibiting growth of cancer cells in an cell comprising cancer activity or for a bioactive agent to cancer cells in an individual, an electronic library comprising the above polypeptide of polypeptide in a test cell sample, a method for treating cancers and a methods for detecting cancer cells in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and cellustation. Preventing and treating cancers, especially lymphoma and centerior cancer and a method for inhibiting the expression of a preventing and treating cancers, especially lymphoma and cellustation, but was obtained for form part of the printed special conter
New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  claim 18; seqid 147; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      N-PSDB; ABD32626
                                                       ftp.wipo.int/pub/published_pct_sequences
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RESULT 34
ADQ39380
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Best Local :
                                                                                                                                                                                                                                   Matches
                                                                                                                                                     ADQ39380 standard; protein; 1304 AA
                                                                                 Myocardial infarction; detection;
                                                                                                  Human myocardial infarction-associated gene derived protein,
                                                                                                                    18-NOV-2004
                                        WO2004058052-A2
                                                         Homo sapiens
                                                                         cardiant;
                                                                                                                                                                                                900 YILIHQALV 908
                                                                                                                                                                                                                 1 YILIHQALV 9
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                                                                                                                                                                                                                                           Similarity
                                                                         gene therapy; human.
                                                                                                                                                                                                                                   Conservative
                                                                                                                  (first entry)
                                                                                                                                                                                                                                          100.0%; Score 44; DB
100.0%; Pred. No. 8.8;
                                                                                                                                                                                                                                   0
                                                                                                                                                                                                                                   Mismatches
                                                                                  single
                                                                                 nucleotide polymorphism;
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                                                                                                   SEQ ID 1043.
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                                                                                  SNP;
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22-DEC-2003; 2003WO-US040978

15-JUL-2004.

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RESULT 35
ADQ39375
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             sequence represents the protein of a human myocardial infarction-
associated gene containing one or more SNP's of the invention. Note: This
sequence was not shown in the specification. The sequence has come from
an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        8 contiguous nucleotides where one of the nucleotides is an SNP given the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises; an isolated nucleic acid molecule comprising at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
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10-MAR-2003; 2003US-045313D:

30-APR-2003; 2003US-0466412P.

23-SEP-2003; 2003US-0504955P.
                                                                                  Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human.
WO2004058052-A2
                                         Homo sapiens
                                                                                                                                                  Human myocardial infarction-associated gene derived protein, SEQ ID 1038.
                                                                                                                                                                                             18-NOV-2004 (first entry)
                                                                                                                                                                                                                                                                                    ADQ39375 standard; protein; 1306 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Claim 10; SEQ ID NO 1043; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; ADQ38552.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               / Match 100.0%; Score 44; DB 8; Length 1304; Local Similarity 100.0%; Pred. No. 8.8; Indels 9; Conservative 0; Mismatches 0; Indels
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-533949/51
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    0;
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RESULT 36
ADM67208
ID ADM67
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nuclect acid molecule comprising at least sequences in an isolated nucleotides is an SNP given in the specification or its complement and encoding any one of the amino caid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding that specification and which is between about 16 and 1000 nucleotides in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method risk for developing myocardial infarction and for preparing a composition for treating or prevention and for preparing an individual who has an increased or decreased risk for developing myocardial infarction and for preparing and composition for treating the myocardial infarction and for preparing and composition for treating the myocardial infarction and for preparing and composition for treating the myocardial infarction and for preparing and composition for treating the myocardial infarction and for preparing and composition for treating the myocardial infarction and for preparing and composition for treating the myocardial infarction and for preparing and 
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SUP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   has an altered risk for developing myocardial infarction. The method comprises detecting a single nuclectide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identifying an individual myocardial infarction by other individual's nucleic a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 10; SEQ ID NO 1038; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cargill M,
                                            Murine adipocyte specific leukocyte common antigen protein SeqID
                                                                                                                                                 ADM67208;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel method for identifying an individual who
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (APPL-) APPLERA CORP
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                                                                                                                                                                                                   ADM67208 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     Local
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                                                                                                                                                                                                                                                                                                                             902
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                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                                                (first entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A,
                                                                                                                                                                                                                                                                                                                             910
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                                                                                                                                                                                                protein; 1343 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                  100.0%;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           who has an altered risk for developing detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                              0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 44; DB Pred. No. 8.9;
                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DB 8; Length 1306;
                                                                                                                                                                                                                                                                                                                                                                                                                              0,
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                                                                                                                                                                                                                                                                                                                                                                                                                                0
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murine; mouse; adipocyte specific; adipose tissue; anti-obesity;

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Search completed: May 3, 2005, 07:38:27 Job time : 66 secs
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WWW. CONTROL C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anticover-expressed in adipose tissue and as such it provides targets for anticover-expressed in adipose tissue and as such it provides targets for anticover-expressivy parmaceutical compositions. Specifically, it refers to a high combility group I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein (IMGI-C) that is associated with obesity and combility and dispersed to the object with obesity and composition describes performing differential gene expression analysis composition describes performing differential gene expression analysis composition and consisting of wild-type, composition and continues selected from a group consisting of wild-type, compounds that are adipocyte specific, and as such can be used for compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can modulate or prevent adipogenesis and treat diabetes or compounds that can be described in the invention.
                                                                                                                                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                    Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1343 AA;
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12-JUN-2003; 2003US-0478206P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (HMGE-) HMGENE INC.
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                                                                                                                                                                                                                                                                                                                                                                                           100.0%; Score 44; DB 8; 100.0%; Pred. No. 9.1;
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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        Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
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      Match
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1: pir1:*
2: pir2:*
3: pir3:*
4: pir4:*
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52
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129.455 Million cell updates/sec
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Copyright (c) 1993 - 2005 Compugen Ltd.
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ALIGNMENTS

A;Status: not compared with conceptual translation A;Molecule type: mRNA A;Residues: 32-192 <ra2> A;Residues: 32-192 <ra2> A;Experimental source: clone HLC-2 R;Tsai, A.Y.; Streuli, M.; Saito, H. Mol. Cell. Biol. 9, 4550-4555, 1989 A;Title: Integrity of the exon 6 sequence is essential for tissue-specific alternative: A;Reference number: 157658; MUID:90066468; PMID:2531281 A;Accession: 157658 A;Status: preliminary; translated from GB/EMBL/DDBJ A;Molecule type: DNA A;Residues: 146-192 <res></res></ra2></ra2>	A;Title: Structural variants of human T200 glycoprotein (leukocyte-common antigen). A;Reference number: A91066; MUID:87275816; PMID:2956090 A;Accession: A29449 A;Molecule type: mRNA A;Residues: 1-31,193-649; L',651-869; G',871-872; A',874-1206; P',1208-1304 <ral> A;Cross-references: GB:Y00062; NID:g34275; PIDN:CAA68269.1; PID:g34276 A;Experimental source: clones pHLC-1 and lambdaHLG1 A;Accession: B29449</ral>	A,Status: preliminary A,Molecule type: mRNA A,Molecule type: mRNA A,Fesidues: 1-32,99-264 <st2> A,Cross-references: GB:Y00638 A,Experimental source: clone LCA.111 and clone LCA.260 A,Accession: C46546 A,Status: preliminary A,Status: preliminary A,Molecule type: mRNA A,Residues: 1-31,193-264 <st3> A,Cross-references: GB:Y00638 A,Experimental source: clone LCA.1 R,Ralph, S.J.; Thomas, M.L.; Morton, C.C.; Trowbridge, I.S. EMBO J. 6, 1251-1257, 1987</st3></st2>	A46546 A46546 Ieukocyte common antigen long splice form precursor - human N;Alternate names: CD45; protein-tyrosine-phosphatase, receptor type c; T200 glycoprote N;Contains: leukocyte common antigen intermediate splice form; leukocyte common antigen C;Species: Homo sapiens (man) C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 09-Jul-2004 C;Accession: A46546; B46546; C46546; A29449; B59449; I57658 R;Streuli, M.; Hall, L.R.; Scala, Y.; Schlossman, S.F.; Saito, H. J. Exp. Med. 166, 1548-1566, 1987 A;Title: Differential usage of three exons generates at least five different mRNAs enco A;Reference number: A46546; MUID:88061067; PMID:2824653 A;Accession: A46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-1304 cSTR> A;Cross-references: UNIPROT:P08575; GB:Y00638 A;Experimental source: clone LCA.6/2 A;Accession: A46546:	RESULT 1

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A;Molecule type: mRNA
A;Molecule type: mRNA
A;Residues: 1-30,170-517,'NTT',521-527,'G',529-555,'S',557-587,'S',589-905,'Q',907-930,
A;Crose-references: GB:M14342; NID:g198914; PIDN:AAA39458.1; PID:g198915
R;Yi, T.; Cleveland, J.L.; Ihle, J.N.
Blood 78, 2222-2228, 1991
A;Title: Identification of movel protein tyrosine phosphatases of hematopoietic cells b A;Reference number: A61180; MUID:92032882; PMID:1932742
A;Accession: A61180
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A;Map position: 1q31-1q32
C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Superfamily: leukocyte common antigen; leukocyte common antigen; phosphoprotein; phosphoric monoester hyd C;Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;594-1235/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;657-899/Domain: protein-tyrosine-phosphatase homology <PTP>
F;657-899/Domain: protein-tyrosine-phosphatase homology spreadicted
Proc. Natl. Acad. Sci. U.S.A.
A;Title: Cloned murine T200 (
A;Reference number: A29075; M
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A;Title: Sequences of Ly-5 cDNA: isoform-related diversity of Ly-5 mRNA. A;Reference number: A29381; MUID:86313686; PMID:2944116
A;Accession: A29381
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C;Genetics:
A;Gene: GDB:PTPRC; CD45
                                                                                                                                                                                                                                                                                                                                                     J. Biol. Chem. 264, 6220-6229, 1989
A; Title: Sequence conservation in potential regulatory regions
A; Reference number: A33522; MUID:89197920; PMID:2522930
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                                                                                                                 R;Raschke, W.C
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Title: High sequence conservation between rat (T200) and mouse A; Reference number: A60933; MUID:87192931; PMID:3570377 A; Accession: A60933
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Gonez, L.J.; Walker, I.D.; Sandrin, M.S.; McKenzie, I.F.C. Immunogenetics 25, 263-266, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: mRNA
A;Residues: 730-838 <YIA>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Residues: R', 289-298;329,'V',331-336,'Y';'R',364-370,'X',372-375;595-608;638-649;669;Johnson, N.A.; Meyer, C.M.; Pingel, J.T.; Thomas, M.L.
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                                                                                                                                                                                               Molecule type: DNA
Residues: 1-22 <JOH>
                                                                                                                                                                                                                                                                                                                Accession: A33522
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Best Local
                                                                                                                                                      Cross-references: GB:M22456; NID:g198755; PIDN:AAB46374.1; PID:g554185;
                                                                                                                                                                                                                                                                            Status: preliminary
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9; Conserv
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A. 84, 161-165, 1987 (Ly-5) cDNA reveals multiple transcripts within MUID:87092355; PMID:2948186
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C;Species: Saccharomyces cerevisiae
C;Date: 21-Jan-1994 #sequence revision 18-Nov-1994 #text change
C;Accession: B48129; S4750; S47543; S66921; S66930; S30809
R;Ganster, R.W.; Shen, W.; Schmidt, M.C.
Mol. Cell. Biol. 13, 3650-3659, 1993
A;Title: Isolation of STD1, a high-copy-number suppressor of a captile isolation of STD1, a high-copy-number suppressor of a captile.
                                                                                                                                                                                                                                                                                                                                                         RESULT
B48129
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Title: Organization of the Ly-5 Gene.
A;Reference number: I57644; MUID:89096862;
A;Accession: I57644
A;Status: preliminary; translated from GB/F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           R;Shen, F.W.; Saga, Y.; Litman, G.; Freemar
Proc. Natl. Acad. Sci. U.S.A. 82, 7360-7363
A;Reference number: A23329; MUID:86042665;
A;Accession: A23329
A;Molecule type: mRNA
A;Residues: 10-30,170-263 <SHE>
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A;Residues: 1-30,74-226 <SA2>
A;Cross-references: GB:M14342
A;Chross-references: GB:M14342
A;Shen;F:W; Saga, Y; Litmar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Cross-references: GB:M23241; NID:g340850; PIDN:AAA39460. R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A. Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987 A;Title: Alternative use of 5' exons in the specification A;Reference number: A28335; MUID:87260987; PMID:3037546
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        밁
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            F;840/Active site: cys \pusepmarx______F;846/Binding site: substrate phosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          R;Saga,
                                                                                                                                                                                                                                                                        N; Alternate names: MSN3 protein; protein
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A; Residues: 'MT', 1-22 < RE2>
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A; Residues: 961-1291
                                                                                                                                                                                                                                                                                                                         STD1
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A;Residues: 32-73 <RES>
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                                                                                                                                                                                                                                                                                                            protein -
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Cell. Biol. 8, 4889-4895, 1988
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                                                                                                                                                                                                                                                                            yeast (Saccharomyces cerevisiae) nes: MSN3 protein; protein 02777;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
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85.7%;
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2, 7360-7363, 1985
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A;Gene: Ly-5

G;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Superfamily: leukocyte splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd C;Reywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric monoester hyd F;1-23/Domain: signal sequence #status predicted <SIG>
F;24-1291/Product: protein-tyrosine-phosphatase (B-cell variant) .#status predicted <MAT>
F;24-564/Domain: extracellular #status predicted <EXT>
F;24-30,170-1291/Product: protein-tyrosine-phosphatase (T-cell variant) #status predicted <TWM>
F;24-30,20pomain: leukocyte common antigen cytosolic domain homology <LAC>
F;587-1291/Domain: intracellular #status predicted <INT>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                F;664-888/Domain: protein-tyrosine-phosphatase homology <PTP>
F;64,150,161,207,211,218,253,258,290,311,322,347,416,427,457,489,520,556/Binding
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A;Cross-references: EMBL:Z74955; NID:g1420176; PID:g1420177; MIPS:YOR047c A;Experimental source: strain S288C R;Bohn, C.; Bolotin-Fbkuhara, M.; Daignan-Fornier, B.; Dang, D.V.; Valens submitted to the Protein Sequence Database, July 1996 A;Reference number: S66929
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R;Hubbard, E.J.A.; Jiang, R.; Carlson, M.
Mol. Cell. Biol. 14, 1972-1978, 1994
A;Title: Dosage-dependent modulation of glucose repression by MSN3 (STD1) in Saccharomyc A;Reference number: S46668; MUID:94158870; PMID:8114728
A;Accession: S47543
                                                                  A;Reference number: A71250; MUID:98332770; PMID:9665876 A;Accession: B71335
                                                                                                                                                                                                                                                                    R;Fraser, C.M.; Norris, S.J.; Weinstock, G.M.; White, O.; Sutton, G.G.; Dodson, rson, J.; Khalak, H.; Richardson, D.; Howell, J.K.; Chidambaram, M.; Utterback, they, L.; Weidman, J.; Smith, H.O.; Venter, J.C. Science 281, 375-388, 1998
A;Fittle: Complete genome sequence of Treponema pallidum, the syphilis spirochete professional sequence of Treponema pallidum.
                                                                                                                                                                                                                                                                                                                                                                                                                     probable purine-binding chemotaxis protein (cheW-1) - syphilis spirochete C;Species: Treponema pallidum subsp. pallidum (syphilis spirochete) C;Date: 24-Jul-1998 #sequence_revision 24-Jul-1998 #text_change 09-Jul-2004 C;Accession: B71335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 A;Cross-references: SGD:S0005573; MIPS:YOR047c A;Map position: 15R
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R;Landt, O.; Hiesel, R.; Unseld, M.
submitted to the Protein Sequence Database, July
A;Reference number: S66907
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A; Accession: S47550
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                                                                                                                                                                                         A;Status: preliminary; nucleic acid sequence not
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Best Local
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71.4%;
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Pred. No. 21;
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                                                                                                           GB:AE000520; NID:g3322631; PIDN:AAC653
                                                                                                                                                                                            shown;
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': ':
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McDc
                                                                                                           RESULT
E83914
transcription regulator (LysR family) BH2117 [imported] - Bacillus halodurans C;Species: Bacillus halodurans C;Dace: 01-Dec-2000 #sequence_revision 01-Dec-2000 #text_change 09-Jul-2004 C;Accession: E83914
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R;Perna, N.T.; Plunkett III, G.; Burland, V.; Mau, B.; Glasmiller, L.; Grotbeck, E.J.; Davis, N.W.; Lim, A.; Dimalanta, Nature 409, 529-533, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 DNA Res. 8, 11-22, 2001
A;Title: Complete genome sequence of enterohemorrhagic Escherichia coli O157:H7
A;Reference number: A99629; MUID:21156231; PMID:11258796
                              S
                                                                                                                                                                                                                                                                                                                                          hypothetical protein Z5474 [imported] - Escherichia coli (strain O157:H7, s
C;Species: Escherichia coli
C;Date: 16-Feb-2001 #sequence_revision 16-Feb-2001 #text_change 09-Jul-2004
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R; Hayashi, T.; Mak
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                                                                                                                                                                                   A; Molecule type: DNA
A; Residues: 1-238 <STO>
                                                                                                                                                                                                                    A;Status: preliminary
                                                                                                                                                                                                                                    A; Accession: F86082
                                                                                                                                                                                                                                                    A; Title: Genome sequence of enterohemorrhagic Escherichia A; Reference number: A85480; MUID:21074935; PMID:11206551
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A; Residues: 1-238 <HAY>
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Kasunaga, T.; Kuhara, S.;
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43;
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RIMD 0509952
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imalanta, E.;
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A;Cross-references: UNIPROT:p38960; EN R;Richards, C.; Harris, D.E. submitted to the EMBL Data Library, Nc A;Reference number: S49823 A;Accession: S49837 A;Accession: S49837 A;Rolecule type: DNA A;Residues: 1-494 <RIC>
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A;Gene:
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A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and A;Reference number: A83650; MUID:20512582; PMID:11058132
A;Accession: E83914
                                                                                                                                                                                                                                                        hypothetical protein YDR082w - yeast (Saccharomyces cerevisiae)
N;Alternate names: hypothetical protein D4456; hypothetical protein YD8554..
C;Species: Saccharomyces cerevisiae
C;Date: 13-Jan-1995 #sequence revision 13-Jan-1995 #text_change 09-Jul-2004
C;Accession: S48799; S49837; S55829; S67889
R;Coster, F.; Jonniaux, J.L.; Goffeau, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Nature 402, 761-768, 1999
A;Title: Sequence and analysis of chromosome 2 of the plant A;Reference number: A84420; MUID:20083487; PMID:10617197
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A; Accession: S48769
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C; Superfamily: 1
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C;Genetics:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       probable peroxidase [imported] - Arabidopsis thaliana
C;Species: Arabidopsis thaliana (mouse-ear cress)
C;Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 09-Jul-2004
C;Accession: D84612
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Residues: 1-494 <COS>
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;Cross-references: UNIPROT:Q9KB18;
;Experimental source: strain C-125
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Pred. No.
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Pred. No.
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                                                                                        November 1994
                                                                                                                              EMBL: X82086; NID: g558241; PIDN: CAA57609.1;
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                                                                                                                              PID:9558;
                                                              thioredoxin homolog l
C;Species: Listeria m
C;Date: 27-Nov-2001 #
C;Accession: AH1377
                 R;Glaser, P.; Frangeul, L.; Buchrieser, C.; I.; Dominguez Bernal, G.; Duchaud, E.; Durand.
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protein F25G6.2 [imported] - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 10-May-2001 #sequence_revision 10-May-2001 C;Accession: A89135
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A;Experimental source: strain S288C
C;Genetics:
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Yeast 11, 673-679, 1995
A;Title: Analysis of a 32.8 kb segment of yeast chromosome IV 1
A;Reference number: S55819; MUID:96093910; PMID:7483840
                                                                                                                                                                                                                                                                                                                               A;Title: Genome sequence of the nematode C elegans: a A;Reference number: A75000; MUID:99069613; PMID:985191 A;Note: see websites genome.wustl.edu/gsc/C elegans/ a A;Note: published errata appeared in Science 283, 35, A;
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C; Superfamily:
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A; Residues: 1-494 < COW >
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A; Residues: 1-1183 <STO>
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Best Local :
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                                                                                                                        Length 1183;
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                                                                                                                                                                                                                                                                                                                                   and www_sanger.ac.uk/Projects/C_ele, 1999; Science 283, 2103, 1999; and
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                                                                                   Indels
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Library, October 1994
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monocytogenes
#sequence_revision lmo2424 [imported]

27-Nov-2001

Amend,

A.; Baquero, I Dussurget, O.; #text_change

F.; Berch; Entian,

Berche, P.; tian, K.D.; F

16-Aug-2004 (strain EGD-e)

Listeria monocytogenes

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C;Accession: JC2474
C;Accession: JC2474
R;Gipp, J.J.; Bailey, H.H.; Mulcahy, R.T.
Biochem. Biophys. Res. Commun. 206, 584-589, 1995
Siochem. Biophys. Res. Commun. 206, 584-589, 1995
Siochem. Gloning and sequencing of the cDNA for the light subunit of human liver gamma-g
                                                                                                    glutamate-cysteine ligase (EC 6.3.2.2) regulatory light chain - human N;Alternate names: gamma-glutamylcysteine synthetase light chain C;Species: Homo sapiens (man) C;Date: 21-Feb-195 #sequence_revision 26-May-1995 #text_change 09-Jul C;Accession: JC2474
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Date: 17-Apr-1993 #sequence_revision 17-Apr-1993 #text_change C;Accession: S28132; T46771
R;Englert, C.; Krueger, K.; Offner, S.; Pfeifer, F.
J. Mol. Biol. 227, 586-592, 1992
A;Title: Three different but related gene clusters encoding gas
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Authors: Kreft, J.; Kuhn, M.; Kunst, F.; Kurapkat, G.; Madueno, E.; ok, C.; Schlueter, T.; Simoes, N.; Tierrez, A.; Vazquez-Boland, J.A.; A;Title: Comparative genomics of Listeria species.
A;Reference number: AB1077; MUID:21537279; PMID:11679669
A;Accession: AH1377
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A; Molecule type: DNA
A; Residues: 1-273 < ENG>
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C;Species: H
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A; Residues: 1-94 <GLA>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ;Krueger, K.; Pfeifer, P. .
Bacteriol. 178, 4012-4019, 1996
. Bacteriol. 178 4012-4019, 1996
. Title: Transcript analysis of the c-vac region and differential synthesis ;Reference number: Z24092; MUID:96312339; PMID:8763925
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Experimental
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Status: preliminary; translated
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Species: Halobacterium salinarum
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Best Local
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Pred. No. 27;
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                                                                                                                          #text_change 09-Jul-2004
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Voss, H.; Wehland,
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                                                      R;Lin, X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.; M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; VanAken, S.E.; Umayam, L.; Tallon, L. euss, D.; Nierman, W.C.; White, O.; Bisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter, C.
                                                                                                                          A;Cross-references: UNIPROT:080909; EMBL:AC004683; NID:g3395421; PID:g3395430 A;Experimental source: cultivar Columbia
                                                                                                                                                                      A;Status: translated from GB/EMBL/DDBJ
A;Molecule type: DNA
A;Residues: 1-453 <ROU>
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A; Accession: T02503
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402,

Nierman, W 2, 761-768,

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hypothetical protein At2g38420 [imported] - Arabido N;Alternate names: hypothetical protein T19C21.9 C;Species: Arabidopsis thaliana (mouse-ear cress) C;Date: 05-Mar-1999 #sequence revision 05-Mar-1999 C;Accession: T02503; G84804
C;Accession: T02503; G84804
R;Rounsley, S.D.; Lin, X.; Ketchum, K.A.; Crosby, M.L.; Brandon, R.C.; Sykes, submitted to the EMBL Data Library, August 1998
A;Description: Arabidopsis thaliana chromosome II BAC T19C21 genomic sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             C;Accession: AE2418
R;Kaneko, T.; Makamura, Y.; Wolk, C.P.; Kuritz, T.;
Nakazaki, N.; Shimpo, S.; Sugimoto, M.; Takazawa, I
DNA Res. 8, 205-213, 2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   A;Map position: 1p21-1p21
C;Superfamily: human glutamate-cysteine ligase regulatory light
C;Keywords: ligase
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A;Accession: JC2474
A;Molecule type: mRNA
A;Residues: 1-274 <GIP>
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A; Residues: 1-447 < KUR>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       A;Title: Complete Genomic Sequence of the Filamentous Nitrogen-fixing A;Reference number: AB1807; MUID:21595285; PMID:11759840
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 hypothetical protein all4901 [imported] - Nostoc sp. C;Species: Nostoc sp. PCC 7120
A;Note: Nostoc sp. strain PCC 7120 is a synonym of A
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;Experimental source: strain PCC 7120
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Note: Nostoc sp. strain PCC 7120 is a synonym of Anabaena sp.;Date: 14-Dec-2001 #sequence_revision 14-Dec-2001 #text_change
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د.
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Pred. No. 1.2e+02;
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M.; Yamada, M.; Yasuda, M.;
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A;Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
A;Reference number: A84420; MUID:20083487; PMID:10617197
A;Accession: G84804
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-453 <STO>
A;Cross-references: GB:AE002093; NID:g3395430; PIDN:AAC28762.1; GSPDB:GN00139
C;Genetics: T19C21.9; At2g38420
A;Gene: T19C21.9; At2g38420
A;Map position: 2
Query Match
Best Local Similarity 83.3%; Pred. No. 1.2e+02;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Matches 5; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
Ouery Match 63 FQLHDC 6
Search completed: May 3, 2005, 06:17:18
Search completed: May 3, 2005, 06:17:18
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Result
No.
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Maximum Match 100%
Listing first 45 summaries
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Maximum DB seq length: 2000000000
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       Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Score
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148.023 Million cell updates/sec
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Gapop 10.0 , Gapext 0.5
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52
1 FQLHDCTQV 9
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1: uniprot_sprot:*
2: uniprot_trembl:*
     GenCore version 5.1.6
Copyright (c) 1993 - 2005 Compugen Ltd.
     BB
 Q8C6Q7
Q94G50
CD45 MOUSE
Q94G70
CD45 MOUSE
Q64131
Q64131
Q97A32
Q9VE68
Q9VE68
Q7WR7
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P08575 homo sapien
Q8ppn8 xanthomonas
Q8c6q7 mus musculu
                                                                                                                                                              Q7vwr7
Q7wam7
Q7wjt0
Q7my29
Q7fnv2
Q7nik1
Q91u70
071955
071954
                                     Q76b27
Q95z85
Q96662
Q70dk0
Q65815
Q807z9
Q6snn1
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bordetella
bordetella
rhodopirell
botryocladi
gloeobacter
bovine vira
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giardia lam
bordetella
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mus musculu
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mus musculu
oryza sativ
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drosophila
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Q7XSJ4	Q8QP47	Q7YU29	Q7Q0M7	076976	Q9UHI2	Q7XVZ2	Q7RJC4	Q9KIF2	P96124	Q873Z2	Q73ML6	Q9RBN4	085748
Q7xsj4 oryza sativ	Q8qp47 bovine vira	Q7yu29 drosophila	Q7q0m7 anopheles	076976 strongyloce	Q9uhi2 homo sapier	Q7xvz2 oryza sativ	Q7rjc4 plasmodium	Q9kif2 streptomyce	P96124 treponema	Q873z2 leptosphaer	Q73ml6 treponema	Q9rbn4 treponema	O85748 treponema
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ALIGNMENTS

RESULT 1

GO; GO:000472 GO; GO:0006471 InterPro; IPRI InterPro; IPRI InterPro; IPRI	Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903 (; [2] SEQUENCE FROM N.A. TISSUB-Primary B-Cells; Strausberg R.; Strausberg R.; Submitted (SEP-2001) to the EMBL/GenBank/DDBJ EMBL; BC014239, AAH14239.1; HSSP; P18031; 1AAX.	Richards S., Worley K.C., Hale S., G. Villalon D.K., Muzny D.M., Sodergen Fahey J., Helton E., Ketteman M., Mak Whiting M., Madan A., Young A.C., Sh Blakesley R.W., Touchman J.W., Green Rodriguez A.C., Grimwood J., Schmutz Krzywinski M.I., Skalaka U., Smallus Jones S.J., Marra M.A.; "Generation and initial analysis of and mouse cDNA sequences.";		SPJK7 PRELIMINARY; PRT; 756 AA. SPJK7; SPJK1-2004 (TrEMBLrel. 27, Created) 5-JUL-2004 (TrEMBLrel. 27, Last sequence update) 5-JUL-2004 (TrEMBLrel. 27, Last annotation update) IPRC protein (Fragment). anne=FPERC; omo sapiens (Human). ukaryota; Metazoa; Chordata; Craniata; Vertebrata; ammalia; Butheria; Primates; Catarrhini; Hominidae CBI_TaxID=9606;	Q6PJK7
activity; IEA. Ylation; IEA.	2002). databases.	arcia A.M., Gay L.J., Hulyk S.W., E.J., Lu X., Gibbs R.A., Aldan A., Rodrigues S., Sanchez A., evchenko Y., Bouffard G.G., E.D., Dickson M.C., J., Myers R.M., Butterfield Y.S., D.E., Schnerch A., Schein J.E., nore than 15,000 full-length human	pnas.242603899; srge J.G., C.M., Schuler G.D., sr C.F., Bhat N.K., ang J., Hsieh F., G.M., Hong L., inci P., Prange C., jon R.D., Mullahy S.J., J.A., Gunararne P.H.,	late) late) cata; Euteleostomi; nidae; Homo.	

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RESULT 2
CD45 HUMAN
ID CD45 H
AC P08575
DT 10-OCT
DT 10-OCT
DE (T200)
GN Heme = P
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Best Local :
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PROSITE;
NON_TER
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MEDLINE=88061067; PubMed=2824653;
MEDLINE=88061067; PubMed=2824653;
Streuli M., Hall L.R., Saga Y., Schlossman S.F., Saito H.;
"Differential usage of three exons generates at least five mRNAs encoding human leukocyte common antigens.";
J. Exp. Med. 166:1548-1566(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQUENCE FROM N.A. (AUCTION SEQUENCE FROM NAMEDLINE=87275816; PubMed=2956090; Ralph S.J., Thomas M.L., Morton C.C., Ralph S.J. Thomas M.L., Morton C.C., 2015 Pubmed Property of Name 1200 gl
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      P08575; Q16614; Q9H0Y6;
01-AUG-1988 (Rel. 08, Created)
10-QCT-2003 (Rel. 42, Last sequence up
05-JUL-2004 (Rel. 44, Last annotation
                                                                                                                                                                                                   MEDLINE=90316093; PubMed=1695146; Streuli M., Krueger N.X., Thai T., Tar "Distinct functional roles of the two domains of the receptor-linked protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      "Complete exon-intron organization antigen (CD45) gene.";
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Mammalia; l
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                 protein
                                                                                                                                                                                                                                                                                                                                                                               Charbonneau H., Tonks N.K., Walsh K.A., "The leukocyte common antigen (CD45): a
                                                                                                                                                                                                                                                                                                                                                                                                      Charbonneau H.,
                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=89017162; PubMed=2845400;
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Leukocyte common antigen precursor (EC 3.1.3.48)
(יבואס)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Immunol.
                                                                            ) J. 9:2399-2407(1990).

FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while receptor.
                                         Eirst one.
CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                   first
  tyrosine + phosphate
SUBUNIT: Binds GANAB
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                                                                                                                                                                                                                                                                                                                                        tyrosine phosphatase.";
atl. Acad. Sci. U.S.A. 85:7182-7186(1988)
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PS50055;
756
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141:2781-2787(1988).
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TYR_PHOSPHATASE_PTP; 1.
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Primates;
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    and
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  PRKCSH (By similarity)
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intracellular p
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human leukocyte
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sphatases LCA
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InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
InterPro; IPR000897; TYR phosphatase.
InterPro; IPR000242; Tyr Pp.
Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                     EMBL; Y00062; GMBL; M23496; EMBL; M23496; EMBL; M23468; EMBL; M23468; EMBL; M23470; EMBL; M23471; EMBL; M23471; EMBL; M23471; EMBL; M23476; EMBL; M23476; EMBL; M23476; EMBL; M23476; EMBL; M23476; EMBL; M23478; EMBL; M23478; EMBL; M23478; EMBL; M23478; EMBL; M23481; EMBL; M23481; EMBL; M23481; M23481; M23486; EMBL; M23486; EMBL; M23486; EMBL; M23486; EMBL; M23486; EMBL; M23486; EMBL; M23487; EMBL; M23488; EMBL; M23489; 
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                                                                                                                                                                                                   GO; GO:0005887; C:integral to plasma membrane; TAS.
GO; GO:0005001; F:transmembrane receptor protein tyros
GO; GO:0007166; P:cell surface receptor linked signal
                                                                                                                                                                                                                                                                  MIM;
                                                                                                                                                                                                                                                                           Genew; HGNC:9666; PTPRC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            entities requires a license agreement (S or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                             GlycoSuiteDB;
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                                                                                                                                                                                                                                                                                                                                IntAct; P08575;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SIMITARITY: Contains 2 fibronectin type III domain: SIMITARITY: Contains 2 protein-tyrosine phosphatas: DATABASE: NAME=PROW; NOTE=CD guide CD45 entry; WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SUBCELLULAR LOCATION: Type I membrane protein
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isoforms=2;
Comment=At least 8 isoforms are produced;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        IsoId=P08575-2; Sequence=V0PTM: Heavily N- and O-glycosy SIMILARITY: Belongs to the preceptor class 1/6 subfamily.
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Best Local S
Matches 9
SEQUENCE FROM N.A.

STRAIN=306 / ATCC 13902 / XV 101;

STRAIN=306 / ATCC 13902 / XV 101=10.1038/417459a;

MEDIJINE 20202115; PubMed=12024217; DOI=10.1038/417459a;

Gasilva A.C.R., Ferro J.A.M., Partolini M.C., Camazgo L.E.A.,

Quaggio R.B., Monteito-Vicorello C.B., Van Sluys M.A., Almeida N.F.,

Quaggio R.B., Monteito-Vicorello C.B., Van Sluys M.A., Almeida N.F.,

Camarotte G., Cannavan F., Cardozo J., Chambergo F., Ciapina L.P.,

Cicarelli R.M.B., Coutinho L.L., Cursino-Santos J.R., El-Dorry H.,

Faria J.B., Ferreira A.J.S., Perreira R.C.C., Ferro M.I.T.,

Formighieri E.F., Franco M.C., Greggio C.C., Gruber A.,

Formighieri E.F., Franco M.C., Greggio C.C., Gruber A.,

Formighieri E.R., Franco M.C., Greggio C.C., Gruber A.,
                                                                                                                                                                                                                                                                                                                           Q8PPN8;
01-OCT-2002
01-OCT-2002
01-JUN-2003
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NCBI_TaxID=92829;
                                                                                                                                                                                                                                                   Xanthomonas axonopodis (pv. citri).
Bacteria; Proteobacteria; Gammaproteobacteria; Xanthomonadales;
                                                                                                                                                                                                                                                                                        OrderedLocusNames=XAC0647;
                                                                                                                                                                                                                                                                                                           Hypothetical protein
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(TrEMBLrel. 22, Last sequence update)
(TrEMBLrel. 24, Last annotation updat
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hatase; Repeat; Signal; T-cell;
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JOCGQ7;
O1-MAR-2003 (TrEMBLrel. 23, Last sequence update)
O1-MAR-2003 (TrEMBLrel. 26, Last sequence update)
O1-MAR-2004 (TrEMBLrel. 26, Last annotation update)
O1-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Mus musculus 2 days pregnant adult female oviduct cDNA, RIKEN ful
length enriched library, clone:E230015G23 product:protein tyrosin
length enriched library, clone:E230015G23 product:protein tyrosin
length enriched library, clone:E230015G23 product:protein tyrosin
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Nature 417:459-463(2002).
SEQUENCE FROM N.A.
STRAIN=C57BL/6J; TISSUE=Oviduct;
MEDLINE=20499374; PubMed=11042159; DOI=10.1101/gr.145100;
                                                                                                                   the RIKEN Genome Exploration Research Group Phase I & II Team; "Analysis of the mouse transcriptome based on functional annot 60,770 full-length cDNAs."; Nature 420:563-573 (2002).
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STRAIN=C57BL/6J; TISSU
The FANTOM Consortium,
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STRAIN=C57BL/6J; TISSUE=Oviduct;
STRAIN=E21085660; PubMed=11217851;
RIKEN FANTOM Consortium;
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STRAIN-C57BL/6J; TISSUE=Oviduct;
MEDLINE=99279253; PubMed=10349636;
Carninci P., Hayashizaki Y.;
"High-efficiency full-length cDNA cMeth. Enzymol. 303:19-44(1999).
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EMBL; AE011693; AAM35536.1; -.

GO; GO:0003824; F:catalytic activit

GO; GO:0008967; F:phosphoglycolate

GO; GO:0008152; P:metabolism; IEA.
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Mammalia; Eutheria;
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InterPro; IPR006402; HAD SF-IA.~3.
InterPro; IPR006439; HAD SF-A.v1.
Pfam; PF00702; Hydrolase; 1.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 "Functional annotation of Nature 409:685-690(2001).
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[1]
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Rodentia;
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6
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RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,
RA Hayashida K., Hayatsu N., Hiramoto K., Hiraoka T., Hirozane T.,
RA Hori F., Imotani K., Ishii Y., Itoh M., Kagawa I., Kasukawa T.,
RA Katoh H., Kawal J., Kojima Y., Kondo S., Konno H., Kouda M., Koya S.,
RA Katihara C., Matsuyama T., Miyazaki A., Murata M., Nakamura M.,
RA Nishi K., Nomura K., Numazaki R., Ohno M., Ohsato N., Okazaki Y.,
RA Saito R., Saitoh H., Sakai C., Sakai K., Sakazume N., Sano H.,
RA Sasaki D., Shibata K., Shinagawa A., Shiraki T., Sogabe Y., Tagami M.,
Ragawa A., Takahashi F., Takaku Akahira S., Takeda Y., Tanaka T.,
RA Tagawa A., Takahashi F., Takaku Akahira S., Takeda Y., Tanaka T.,
RA Tagawa A., Toya T., Yasunishi A., Muramatsu M., Hayashizaki Y.;
RI Submitted (JUL-2001) to the EMBL/GenBank/DDBJ databases.
REMBL; AKO54056; BAC35638.1; -.
REMBL; AKO54056; BC35638.1; -.
REMBL; AKO54056; Cexternal side of plasma membrane; TDA.
GO; GO:001681; P:protein binding; IPI.
RGO; GO:0030183; P:B-cell differentiation; IMP.
RGO; GO:0042100; P:B-cell proliferation; IMP.
RGO; GO:0042098; P:T-cell differentiation; IMP.
RGO; GO:0042098; P:T-cell proliferation; IMP.
RGO; GO:0046652; P:thymocyte differentiation; IMP.
RGO; GO:0046652; P:thymocyte differentiation; IMP.
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PROSITE; PS500383; TYR PHOSPHATASE 1; 1.

PROSITE; PS50056; TYR PHOSPHATASE 2; 1.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
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                                                                                                                                                                                                                                                       Hydrolase;
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141
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FSLHDCT 147
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85.7%;
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GO; GO:0006915; P:apoptosis; IEA.
GO; GO:00042829; P:defense response to p:
InterPro; IPR000767; Disease_resist.
InterPro; IPR001611; LRR.
InterPro; IPR002182; NB-ARC.
Pfam; PF00560; LRR 1; 2.
Pfam; PF00931; NB-ARC; 2.
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Q94GZ0;
01-DEC-2001 (TrEMBLrel. 19, 0
01-DEC-2001 (TrEMBLrel. 19, 1
01-MAR-2004 (TrEMBLrel. 26, 1
Puttative disease resistance p
                                     REVISIONS.
                                                                           Saga Y., Tung "Sequences of Proc. Natl. Ac
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Submitted
                                                                                                                                                                                                 01-JAN-1988 (Rel. 06, Created)
01-JAN-1988 (Rel. 06, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation updat
Leukocyte common antigen precursor (EC 3.1.
common antigen Ly-5) (CD45) (T200).
                                                                                                                                                                                                                                                           CD45_MC
P06800;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Buell R.;
Submitted
                                                                                                                                                                                                                                                                                   MOUSE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   EMBL; AC087181; AAK38505.1; Gramene; Q94GZ0; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. Buell C.R., Yuan Q.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Trach Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Ehrhartoideae; Oryzeae; Oryza.
                                                                                                                                                        Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                         Name=Ptprc; Synonyms=Ly-5;
                                                                                                                                                                                                                                                                                                                                                                                                                        PRINTS; PR00364; DISEASERSIST. SEQUENCE 959 AA; 108559 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    White
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Riggs F.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Buell C.R., Yuan Q.,
Brenner M., Burgess
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=4530;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Oryza sativa (Rice)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=OSJNBa0018H01.20;
SEQUENCE OF 10-124
TISSUE=T-cell;
                               Proc. Natl.
                                                                                                           MEDLINE=86313686;
                                                                                                                                            NCBI_TaxID=10090;
                                                                                                                                                                                Mus musculus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Utterback
                                                                                                                        SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                        MOUSE
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    Yuan Q., Ouyang S., Moffat K.S., E.
    Burgess S., Hance M., Shvartsbeyn Hsiao J., Zismann V., Blunt S., Pai T.R., Feldblyum T.V., Quackenbush J. Fraser C.M.;

                                                                                                                                                                                                                                                                                                                                                     FQLHDCTQ 8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (AUG-2001)
                                 Acad.
                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                               (Mouse)
                                                                          Ly-S., Shen F.-W., Boyse E.A.;
Ly-5 cDNA: isoform-related diversi
cad. Sci. U.S.A. 83:6940-6944(1986)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N.A.
                                           J.-S.,
                                                                                                                                                                                                                                                                        STANDARD;
                                                                                                           PubMed=2944116;
          FROM
                                                                                                                                                         Chordata;
Rodentia;
                                           Shen
                                                                                                Shen F.-W.,
                                                                                                                                                                                                                                                                                                                                                                                      73.1%;
62.5%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        to the EMBL/GenBank/DDBJ databases
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                              F.-W., Boyse E.A.;
S.A. 84:1991-1991(1987)
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Pred.
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Sciurognathi; Muridae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Moffat K.S., Hill J.N.,
                                                                                                                                                                                                                                                                                                                                                                                                                        DDBCC17F0C4E5EB3 CRC64;
                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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C 3.1.3.48) (L-CA)
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99;
                                                                                      diversity
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Pai G., VanAken S.E.
sh J., Salzberg S.L.,
                                                                                                                                                                                                                                                                                                                                                                                                 2;
                                                                                                                                                                                                                                                                                                                                                                                                 Length 959;
                                                                                        ę,
                                                                                                                                                         Euteleostomi; ; Murinae; Mus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tracheophyta;
                                                                                        Ly-5
                                                                                                                                                                                                                 (Lymphocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gansberger
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MGD; MGI:97810; Ptprc.

GO:GO:0009897; C:external side of plasma membra:
GO:GO:0005815; F:protein binding; IPI.

InterPro; IPR003961; FN III.

InterPro; IPR003961; FN III-like.

InterPro; IPR000389; TYR_phosphatase.

InterPro; IPR000242; TY_P:Pp.

InterPro; IPR000242; TY_P:Pp.

Pfam; PF00041; fn3; 3.

Pfam; PF000012; Y phosphatase; 2.

Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

PROSITE; PS00383; TYR_PHOSPHATASE 1; 2.

PROSITE; PS00383; TYR_PHOSPHATASE 1; 2.

PROSITE; PS00383; TYR_PHOSPHATASE 1; 2.

PROSITE; PS0056; TYR_PHOSPHATASE 1; 2.

PROSITE; PS0055; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50055; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50055; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE 1; 2.
                                                                                                                                                                                                                                                                                                                                                       EMBL; M14342; AAA39458.1; -.
EMBL; M11934; AAA39461.1; -.
EMBL; M15174; AAA40161.1; -.
PIR; A23329; A23329.
PIR; A28334; A28334.
HSSP; P18052; 1YFO.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the European Bioinformatics Institute. There use by non-profit institutions as long as modified and this statement is not removed. U entities requires a license agreement (See htt or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MEDLINE=86042665; F. Shen F.-W., Saga Y. Boyse E.A.; "Cloning of Ly-5 cD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It is produced throubetween the Swiss Institute of Bioinformatics and the
                                       Transmembrane.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        J. Biol
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "Cloned murine T200 (Ly-5) cDNA reveals multiple transcripts within and T-lymphocyte lineages."; Proc. Natl. Acad. Sci. U.S.A. 84:161-165(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE OF 822-1152 FROM N.A. MEDLINE=87092355; PubMed=2948186;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Arendt C.W., Ostergaard H.L.; "Identification of the CD45-associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              INTERACTIONS WITH GANAB AND PRKCSI
MEDLINE=97294720; PubMed=9148925;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Proc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH.
SUBCELLULAR LOCATION: Type I membrane
ALTERNATIVE PRODUCTS:
Event=Alternative splicing; Named isof
Comment=A number of isoforms are pro
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  , alpha- and beta-subunits of alpha-glucosidase II."; Biol Chem. 272:13117-13125(1997).

FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the first one.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 compartment of development.

PTM: Heavily N- and O-glycosylated.

SIMILARITY: Belongs to the protein-tyrosine phosphat Receptor class 1/6 subfamily.

SIMILARITY: Contains 2 fibronectin type III domains.

SIMILARITY: Contains 2 protein-tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        first one.
CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)0 =
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cDNA.";
. Sci. U.S.A. 82:7360-7363(1985)
 23
1152
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            STAGE:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PubMed=3864163;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Sequence=Displayed;
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Leukocyte common antigen
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Named isoforms=1;
rms are produced;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Freeman
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                DOI=10.1074/jbc.272.20.13117;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      It is produced through a collaboration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ž
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (See http://www.isb-sib.ch/announce/
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          restricted
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                                                                                                                                                                                                                                                                                                                        membrane;
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                                                      Hydrolase;
; Signal; T
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Usage
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                                                      T-cell;
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RESULT Q61812 ID 101 102 ID 20 OC DIT O11 DT O12 DT
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EMBL; M9293; AAA39459:1; -.

H8SP; P18052; IYFO.

MGD; MG1:97810; Peprc.

GO; GO:0016021; C:integral side of plasma membrar

GO; GO:0016021; C:integral to membrane; TAS.

GO; GO:0005515; F:protein binding; IPI.

GO; GO:003013; P:B-cell differentiation; IMP.

GO; GO:0030217; P:T-cell differentiation; IMP.

GO; GO:0030217; P:T-cell proliferation; IMP.

GO; GO:0042100; P:B-cell proliferation; IMP.

GO; GO:0042101; P:T-cell proliferation; IMP.

GO; GO:0042098; P:T-cell proliferation; IMP.

GO; GO:0042098; P:T-cell proliferation; IMP.

GO; GO:0046502; P:Tymccyte differentiation; IMP.

GO; GO:0046502; P:Tymccyte differentiation; IMP.

InterPro; IPR000387; TYR_phosphatase.

InterPro; IPR000387; TYR_phosphatase.
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InterPro;
InterPro;
Pfam; PF00
Pfam; PF00
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             061812 PRELIMINARY; PRT; 1291 AA. 061812; 01-NOV-1996 (TrEMBLrel. 01, Created) 01-NOV-1996 (TrEMBLrel. 01, Last sequence update) 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
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DOMAIN
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Lymphocyte common antigen Name=Ptprc; Synonyms=Ly5;
                                                                                                                                                                                                                                                                                     alleles.";
                                                                                                                                                                                                                                                                                                   "Comparison of mouse
                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A. STRAIN=BALB/c;
                                                                                                                                                                                                                                                                                                                                                                                        NCBI_TaxID=10090;
[1]
                                                                                                                                                                                                                                                                                                                                                                                                                                                     Mus musculus
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                                                                                                                                                                                                                                                                                                                                    MEDLINE=92361152; PubMed=1822988;
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     fn3;
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 _phosphatase;
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Rodentia;
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85.7%;
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Ly5 A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   precursor.
                                                                                                                                                                                                                                                                                                   Raschke
and Ly5
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Score 38; DB
Pred. No. 1.2e
0; Mismatches
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N-linked
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N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Phosphocysteine similarity).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Phosphocysteine intermediate
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                                                                                                                                                                                                                                                                                                                                                                                                                   Sciurognathi;
                                                                                                                                                                                                                                                                                                                                                                                                                    Craniata; Vertebrata; Euteleostomi; Sciurognathi; Muridae; Murinae; Mus
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                                                                                                                                                                                                                                                                                                   leukocyte
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                                                                                                                                                                                                    membrane;
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phosphatase
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Best Local S
Matches 6
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Q1-NOV-1996 (TrEMBLrel. 01, Created)
01-NOV-1996 (TrEMBLrel. 01, Last sequence update)
01-OCT-2003 (TrEMBLrel. 25, Last annotation update)
01-OCT-2003 (Tremmon antigen (L-CA) (Fragment).
                EMBL;
                                                                                                                                                                                                                                                                                                                                                                   J. Biol.
EMBL; MI
EMBL; MI
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
PROSITE; PS50853; FN3; 2.
PROSITE; PS00383; TYR PHOSPHATASE 1; 2.
PROSITE; PS0056; TYR_PHOSPHATASE_PTP; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                        EMBL;
EMBL;
EMBL;
EMBL;
EMBL;
EMBL;
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Eukaryota; Metazoa; (
Mammalia; Eutheria; )
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          MEDLINE=87260986; PubMed=2955416; Thomas M.L., Reynolds P.J., Chain A., "B-cell variant of mouse T200 (Ly-5):
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q64730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hydrolase; Signal.
SIGNAL 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                        Johnson N.A., Meyer C.M., Pingel J.T., Thomas Neguence conservation in potential regulatory
                                                                                                                                                                                                                                                                                                                                                                                                                                                      MEDLINE=89197920; PubMed=2522930;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               splicing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=10090;
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Biol: Chem. 264:6220-6229(1989).

M23148; AAA39418.1; JOINED.

M23150; AAA39418.1; JOINED.

L; M23151; AAA39418.1; JOINED.

L; M23153; AAA39418.1; JOINED.

L; M23154; AAA39418.1; JOINED.

L; M23155; AAA39418.1; JOINED.

L; M23157; AAA39418.1; JOINED.

L; M23157; AAA39418.1; JOINED.

L; M23158; AAA39418.1; JOINED.

L; M23134; AAA39418.1; JOINED.

L; M23134; AAA39418.1; JOINED.

L; M23132; AAA39418.1; JOINED.

L; M23131; AAA39418.1; JOINED.

L; M23132; AAA39418.1; JOINED.

L; M23131; AAA39418.1; JOINED.

L; M23129; AAA39418.1; JOINED.

L; M23129; AAA39418.1; JOINED.

L; M23129; AAA39418.1; JOINED.

L; M23142; AAA39418.1; JOINED.

L; M23142; AAA39418.1; JOINED.

L; M23144; AAA39418.1; JOINED.

L; M23144; AAA39418.1; JOINED.

L; M23147; AAA39418.1; JOINED.

L; M23148; AAA39418.1; JOINED.

L; M23149; AAA39418.1; JOINED.

L; M23139; AAA39418.1; JOINED.

L; M23139; AAA39418.1; JOINED.

L; M23139; AAA39418.1; JOINED.

L; M23137; AAA39418.1; JOINED.
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                                                                                                                                                                                                                                                                                                                                                                                                            leukocyte-common antigen
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Rodentia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      23
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85.7%;
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                            gene.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Ben-Neriah Y., Trowbridge I.S evidence for alternative mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                          Thomas M.L.
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Q97A2
ID A32
ID A32
ID A32
ID O97A
AC O97A
AC O97A
DT 01-0
DT 01-0
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Best Loc
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EMBL; M23146; AAA39418.1; J
EMBL; M23145; AAA39418.1; J
EMBL; M23158; AAA39418.1; J
EMBL; M23152; AAA39418.1; J
HSSP; P18052; 1YFO.
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SMART; SM00194; PTPC; 2.
PROSITE; PS50853; FN3; 2.
PROSITE; PS50056; TYR PHOSPHATASE 2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP;
                                                                                                                                                                                                                Pfam; PF0
Complete
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Q97A32;
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G0; G0:0004725; F:protein tyrosine phosphatase activity; IEA.
G0; G0:0006470; F:protein amino acid dephosphorylation; IEA.
InterPro; IPR003961; FN III.
InterPro; IPR00387; TYR phosphatase.
InterPro; IPR000387; TYR PP.
                                                                                                                                                                                                                                                                                   sequence of Thermoplasma volcanium.";
proc. Natl. Acad. Sci. U.S.A. 97:14257-14262(2000).
EMBL; AP000994; BAB60120.1;
GO; GO:0005851; C:eukaryotic translation initiation factor 2B.
GO; GO:000525; F:GTP binding; IEA.
GO; GO:000743; F:translation initiation factor activity; IEA.
GO; GO:0006413; P:translational initiation; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               01-OCT-2001 (TrEMBLrel. 18, Created)
01-OCT-2001 (TrEMBLrel. 18, Last sequence update
01-OCT-2003 (TrEMBLrel. 25, Last annotation update
Translation initiation factor eIF2 beta subunit.
Name=TVG0999664; OrderedLocusNames=TV0978;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A.
STRAINEGSS1 / DSM 4299 / JCM 9571;
STRAINEGSS1 / DSM 4299 / JCM 9571;
MEDLINE=20570466; PubMed=11121031; DOI=10.1073/pnas.97.26.14257;
Kawashima T., Amano N., Koike H., Makino S.-I., Higuchi S.,
Kawashima-Ohya Y., Watanabe K., Yamazaki M., Kanehori K., Kawamot
Nunoshiba T., Yamamoto Y., Aramaki H., Makino K., Suzuki M.;
"Archaeal adaptation to higher temperatures revealed by genomic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                NCBI_TaxID=50339;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Thermoplasma volcanium.
                                                                                                                                                                                           SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Thermoplasmataceae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
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Pfam; PF000041; fn3; 3.
Pfam; PF00102; Y phosphatase;
PRINTS; PR00700; PRTYPHPHTASE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Archaea; Euryarchaeota; Thermoplasmata; Thermoplasmatales;
                                                                                                                                                                                                                                         InterPro; IPR000649; IF-2B.
Pfam; PF01008; IF-2B; 1.
                                                                                                                     Local
                                                                                                                                            Match
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                                                                                                                                                                                      proteome;
3 253 AA;
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                                                                                                                   Similarity
FOLHSCNEI
                                             FQLHDCTQV
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                                                                                            Conservative
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217
                                               9
                                                                                                                                                                                         Initiation factor.
27966 MW; F68EBF6DF865E7F3 CRC64;
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                                                                                                                71.2%;
55.6%;
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85.7%;
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Pred. No. 1.
                                                                                                                   Score 37; DB Pred. No. 39;
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                                                                                            2;
                                                                                                                                            Length 253;
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Adams N.D., Celniker S.E., Holt R.A., Evans C.A., Gocayme J.D.,
RA Adams N.D., Celniker S.E., Holt R.A., Evans C.A., Galle R.F.,
RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Change M., Pfeiffer B.D.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Change M., Pfeiffer B.D.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Change M., Pfeiffer B.D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Beson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Burtis K.C., Busam D.A., Butler H., Cadleu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.M.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies S.M.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies S.M.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies S.M.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies S.M.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies S.M.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies S.M.,
RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
RA Harris N.L., Harvey D., Heiman T.J., Herrandez J.R., Houck J.,
RA Harris N.L., Mattei B., McIntosh T.C., McIntosh T.
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01-MAY-2000
01-MAY-2000
01-JUN-2003
CG10864-PA.
                                                                                                             Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halpern Patel S., Adams M., Champe M., Dugan S.P., Frise E., Hodgson A., George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R., Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J., Svirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Vente Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M., "Finishing a whole-genome shotgun: Release 3 of the Drosophila melanogaster euchromatic genome sequence."; Genome Biol. 3:RESEARCH0079-RESEARCH0079 (2002).
                                                                                                                                                                                                                                                                                                                                     Science
[2]
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Eukaryota; Brachycera; Diptera; Brachycera;
                    Kaminker J.S., Bergman C.M., Kron Patel S., Frise E., Wheeler D.A.,
                                                        MEDLINE=22426070; PubMed=12537573;
                                                                                                                                                                                                                                                                                            MEDLINE=22426065; PubMed=12537568;
                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Neoptera; Endopterygota; Diptera; Ephydroidea; Drosophilidae; Drosop
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ORFNames=CG10864;
Drosophila melanogaster
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Last annotation updat
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                  Kronmiller B., C.
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                    Carlson J.,
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Zhu X., Smith H.O.,
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                                      Svirskas
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RESULT 11
STD1_YEAST
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FlyBase; FBgn0038621; CG10864.
GO; GO:0016021; C:integral to m
GO; GO:0005216; F:ion channel at
GO; GO:0005267; F:potassium chan
GO; GO:0005267; F:potassium chan
GO; GO:0006811; P:ion transport
GO; GO:0006811; P:ion transport
InterPro; IPR003280; K+channel
InterPro; IPR003280; K+channel
PRINTS; PR01333; ZPOREKCHANEL
Ion transport; Ionic channel; T
SEQUENCE 389 AA; 43883 MW; 1
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Q02794;
Q1-OCT-1993
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           YEAST
                                                                                   Ganster R.W., Shen W., Schmidt M.C.;
Ganster R.W., Shen W., Schmidt M.C.;
"Isolation of STD1, a high-copy-number suppressor of negative mutation in the yeast TATA-binding protein.' Mol. Cell. Biol. 13:3650-3659(1993).
                                                                                                                                                                                                                                                                                                                                  STD1 protein (Glucose repression modulator MSN3).

Name=STD1; Synonyms=MSN3, SF3; OrderedLocusNames=YOR047C;
Saccharomyces cerevisiae (Baker's yeast).

Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomyces.
                                                                                                                                                                                                                                                                                                                                                                                                                                  01-OCT-1993 (Rel. 27, Created)
01-OCT-1993 (Rel. 27, Last sequence update)
25-OCT-2004 (Rel. 45, Last annotation update)
STD1 protein (Glucose repression modulator MSN3).
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                          SEQUENCE FROM N.A. STRAIN=S288C;
                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Submitted
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MEDLINE=94158870; PubMed=8114728;
                                                                                                                                                                           MEDLINE=93268314; PubMed=8497275;
Ganster R.W., Shen W., Schmidt M.C.
                                                                                                                                                                                                                                                                                                          NCBI_TaxID=4932;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Lewis S.E.;
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GO:0016021; C:integral to membrane; IEA.
GO:0005216; F:ion channel activity; IEA.
GO:0005267; F:potassium channel activity; I
GO:0006811; P:ion transport; IEA.
GO:0006813; P:potassium ion transport; IEA.
cerPro; IPR003280; K+channel_2pore.
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AE003722; AAF55561.1;
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l. 3:RESEARCH0084-RESEARCH0084(2002)
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RESULT 12
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A Arino J., Bennes V., Bohn C., Bolotin-Fukharan M., Bordome R.,
A Boyer J., Camasses A., Casamayor A., Casas C., Cheret G.,
A Cziepluch C., Daignan-Fornier B., Dang D.V., de Haan M., Delius H.,
A Gamo F., Jancedo C.A., Feldmann H., Galilon L., Galisson F.,
A Gamo F.-J., Gancedo C., Goffeau A., Goulding S.E., Grivell L.A.,
A Habbig B., Hand N.J., Hani J., Hattenhorst U., Hebling U.,
Hernando Y., Herrero E., Heumann K., Hiesel R., Hilger F., Hofmann B.
A Hernando Y., Horrero E., Heumann K., Hiesel R., Hilger F., Hofmann B.
A Hollenberg C.P., Hughes B., Jauniaux J.-C., Kalogeropoulos A.,
A Hollenberg C.P., Michaux G., Paces V., Parle-McDermott A.G., Pearson B.M.
A Katsoulou C., Kordes E., Lafuente M.J., Landt O., Louis E.J.,
A Maarse A.C., Madania A., Mannhaupt G., Marck C., Martin R.P.,
A Mewes H.-W., Michaux G., Paces V., Parle-McDermott A.G., Pearson B.M.
A Perrin A., Pettersson B., Poch O., Pohl T.M., Poirey R.,
A Mewes H.-W., Schweizer M., Sor F., Sterky F., Tarassov I.A.,
A Portetelle D., Pujol A., Purnelle B., Ramezani Rad M., Rechmann S.,
A Schwager C., Schweizer M., Sor F., Sterky F., Tarassov I.A.,
A Voet M., Volckaert G., Voss H., Wambutt R., Wedler H., Wiemann S.,
Winsor B., Wolfe K.H., Zollner A., Zumstein E., Kleine K.;
When ucleotide sequence of Saccharomyces cerevisiae chromosome XV.",
"The nucleotide sequence of Saccharomyces cerevisiae chromosome XV.",
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GO; GO:0030
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ACTIVATOR;
CONFLICT
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GermOnline; 143635; -.
TRANSPAC; T01260; -.
SGD; S000005573; STD1.
GO; GO:0005865; C:pulasma membrane; IDA.
GO; GO:0005886; C:plasma membrane; IDA.
GO; GO:0030255; F:protein kinase activator activity; IGI.
GO; GO:0006606; P:glucose metabolism; IMP.
GO; GO:000657; P:regulation of transcription from Pol II pro.
GO; GO:0007165; P:salinity response; IMP.
GO; GO:0007165; P:signal transduction; IMP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "The nucleotide sequence of Saccharomyces cerevisiae chromoson Nature 387:98-102(1997).
-i- FUNCTION: Potential transcriptional activator. Suppressor binding protein (TBP) with a deletion of the nonconserved terminus which disrupts normal transcriptional regulation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBL; L06011; AAA16951.1; -.
EMBL; L21932; AAA18535.1; -.
EMBL; Z19955; CAA92238.1; -.
PIR; B48129; B48129.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cell. Physically interacts with the SNF1 kinase. -!- SIMILARITY: Strong, to MTH1.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MEDLINE=97313270; PubMed=9169874;
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                                                                                                                                            1 FOLHDCT 7
                                                                                                                                                                                     Similarity 5; Conserv
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139 139 E -> D (in Ref.
                                                                                                                                                                                                                                                                         444 AA;
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  PRELIMINARY;
                                                                                                                                                                                                                                                                       50260 MW;
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71.4%;
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                                                                                                                                                                                       Score 37; DB Pred. No. 70; 2; Mismatches
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  5412
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Wiemann S.,
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RESULT 13
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RC STRAIN=Tobama I / ATCC BAA-589 / NCTC 13251;

RX MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;

RX MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;

RX Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,

RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Thomson N.R.,

RA Parkhill J., Sebaihia M., Preston A., Murphy L.D., Mungall K.L.,

RA Chilling M., Akin R., Baker S., Basham D., Bason N., Cherevach I.,

RA Chillingworth T., Collins M., Cronin A., Davis P., Doggett J.,

RA Chillingworth T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Feltwell T., Goble A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

RA Feltwell T., Goble A., Norberczak H., O'Neil S., Ormond D., Price C.,

RA Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,

RA Rabbinowitsch E., Rutter S., Sanders M., Saunders D., Seeger K.,

RA Rabbinowitsch E., Skelton J., Squares S., Stevens K.,

RA Rabins S., Simmonds M., Skelton J., Squares R., Squares S., Stevens K.,

RA Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;

RA Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;

RA Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;

RA Bordetella parapertussis and Bordetella bronchiseptica.";

RE Nat. Genet. 35:32-40(2003).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Matches
                                    Query Match
                                                                     Complete
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q7VWR7
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Morrison H.G., McArthur A.G., Adam R.D., Aley S.B., Gillin F. Olsen G.J., Sogin M.L.;
"Draft sequence of the Giardia lamblia genome.";
Submitted (MAR-2003) to the EMBL/GenBank/DDBJ databases.
-!- CAUTION: The sequence shown here is derived from an EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              GLP_39_56745_40507.
Giardia lamblia ATCC 50803.
Eukaryota; Diplomonadida; F
                                                                                                             EMBL; BX640417; CAE42410.1; -.
GO; GO:0004176; F:ATP-dependent peptidase activity; IEA
GO; GO:0006510; P:ATP-dependent proteolysis; IEA.
InterPo; IPRO311; Pept_S16_N.
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01-OCT-2003 (TrEMBLrel. 25,
01-MAR-2004 (TrEMBLrel. 26,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Q7VWR7;
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EMBL; AACB01000014; EAA41922.1;
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01-MAR-2004 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          OrderedLocusNames=BP2131;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Hypothetical protein
                                                                                                      Pfam; PF02190; LON;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Alcaligenaceae; Bordetella.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Bordetella pertussis.
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   Similarity 6; Conser
                                                                   proteome; 202 AA;
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5412 AA; 601108 MW; 82BE3AFA59E1E69C CRC64;
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                                                                     Hypothetical 22230 MW;
                   75.0%;
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                 Score 36;
Pred. No.
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Pred. No. 49;
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Pred. No. 9.
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9A28926A6F66322C CRC64;
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RESULT 15
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Best Local S
Matches 6
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APARKHILL J., Sebakhia M., Preston A., Murphy L.D., Thomson N.R.,

APARKHILL J., Sebakhia M., Preston A., Murphy L.D., Thomson N.R.,

APARKHILL J., Sebakhia M., Preston A., Murphy L.D., Mungall K.L.,

APARCHIS D.E., Holden M.T.G., Churcher C.M., Bentley S.D., Mungall K.L.,

APARCHIS D.E., Holden M., Temple L., James K.D., Harris B., Quail M.A.,

APARCHIS J., Alaker S., Basham D., Bason N., Cherevach I.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hollow J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hollow J., Schie A., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hamlin N., Hauser H., Holroyd S., Jagels K.,

APARCHIS J., Hollow J., Hollow J., Hollow J.,

APARCHIS J., Hamlin N., James K.D., Harris B., James H.,

APARCHIS J., Hamlin N., James K.D., James J., Halley J.,

APARCHIS J., Hamlin N., James K.D., James J., Halley J.,

APARCHIS J., Hamlin N., James J., James J., James J., James J.,

APARCHIS J., Hamlin J., James J., James J., James J., James J.,

APARCHIS J., Hamlin J., James J.,

APARCHIS J., James 
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Q7WJTO;
Q7WJTO;
Q1-OCT-2003 (TrEMBLrel. 25, C
01-OCT-2003 (TrEMBLrel. 25, L
01-MAR-2004 (TrEMBLrel. 26, L
Hypothetical protein.
[1]
SEQUENCE FROM N.A.
SEQUENCE FROM N.A.
STRAIN=RB50 / ATCC BAA-588;
STRAIN=RB50 / ATCC BAA-588;
STRAIN=RB50 / ATCC BAA-588;
MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227;
MEDLINE=22827954; PubMed=12910271; DOI=10.1038/ng1227; PubMed=12910271; DOI=10.1038/ng1227; PubMed=12910271; DOI=10.1038/ng1227; PubMed=12910271; PubMed=12910271; PubMed=12910271; PubMed=12910271; PubMed=12910271; P
                                                                                                                                                                                                                                                                                                                                                                                             OrderedLocusNames=BB2413;
Bordetella bronchiseptica
Bacteria; Proteobacteria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBL; BX640427; CAE36649.1; -.
GO; GO:0004176; F:ATP-dependent proteolysis;
GO; GO:0006510; P:ATP-dependent proteolysis;
InterPro; IPR003111; Pept_S16_N.
Pfam; PF02190; LON; 1.
Complete proteome; Hypothetical protein.
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SEQUENCE FROM N.A.
STRAIN=12822 / ATCC BAA-587;
                                                                                                                                                                                                                                                                                                                           Alcaligenaceae;
NCBI_TaxID=518;
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202 AA; 22230 MW; 9A28926A6F66322C CRC64;
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75.0%;
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25,
                                                                                                                                                                                                                                                                                                                                                                                             (Alcaligenes bronchisepticus).
Betaproteobacteria; Burkholderiales;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Created)
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Unwin L., Whitehead S., Barrell B.G., Maskell D.J.;
"Comparative analysis of the genome sequences of Bordetella |
Bordetella parapertussis and Bordetella bronchiseptica.";
Nat. Genet. 35:32-40(2003).
EMBL; BX640444; CAE32907.1; -
EMBL; BX640444; CAE32907.1; -
GO; GO:0004176; F:ATP-dependent peptidase activity; IEA.
GO; GO:0006510; P:ATP-dependent proteolysis; IEA.
InterPro; IPR003111; Pept S16 N.
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                                                                                                                              Complete proteome; Hypothetical SEQUENCE 202 AA; 22230 MW;
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SUMMARIES

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ALIGNMENTS

RESULT 1 ABG31984

Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen, allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-CM; leukaemia; colony forming unit-grannlocyte macrophage; immunotherapeutic; colony forming unit-grannlocyte macrophage; 30-NOV-2000; 2000WO-GB004566 06-JUN-2002. Human CD45 HLA-binding peptide, huCD45/304. 05-NOV-2002 ABG31984 standard; peptide; 9 WO200244207-A1 Homo sapiens. haematopoietic; malignant. ABG31984; (first entry) A

30-NOV-2000; 2000WO-GB004566

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia. WPI; 2002-599413/64. Stauss Έ Amrolia PJ;

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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A novel T lymphocyte veto molecule is a chimeric molecule comprising a protein, e.g. the present sequence, linked to a targetting polypeptide that binds a molecule, which differentiates a host cell from a tissue graft cell, or selectively targets a stimulator cell involved in the autoimmune response. A veto molecule, in which the protein binds.
                                                                                                                                                                                                                                                                                          Tlymphocyte veto molecule comprising response cell activating protein linked to molecule that targets stimulator cell marker, used for selective suppression of immune response, e.g. prevention of graft rejection or treatment of auto-immune disease.
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protease inhibitor; transporter;
                                                                                                                                                                                                                                                                                                                                                                     Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 2001US-0279495P.
; 2001US-0292544P.
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                                                                                                                                                                                                                                                                                                                                                                     Urban
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Pred. No. 0.5
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cytoskeletal prote
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The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription fac polypeptide is useful as an immunogenic composition for elicitir

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Best Local S
Matches 9
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17-JUL-2000;
03-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPP) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
The present invention provides the protein and coding sequences of novel proteins from a variety of organisms; including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess bioddiversity and for nutritional purposes. The present sequence is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         gene
                                                                                                                                                                                                                                       Claim 20; Page
                                                                                                                                                                                                                                                                                             Isolated polypeptide for treatment of diseases, diagnostics, antibodies and research use.
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; monkey; dog; sea urchin; expressed sequence tag; EST;
stics; forensic test; gene mapping; genetic disorder; biodiversity;
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; 2000US-00617746.
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                    fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypuclectides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melan lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
expressed protein tag (EPT) isolated from human tissue for trans profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format 2:
                                                                                                                                                                                                                                                                                                       New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protease; protease inhibitor; transporter; cytoskeletal receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                 The invention describes a purified polypeptide, which
                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-040607/03.
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                                                                                                                                                                                                                                                              SEQ ID NO 2034; 134pp; English
                                                                                                                                                                                                                                                                                                                                                                                               Tomlinson
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21-JAN-2000;
25-APR-2000;
20-JUN-2000;
The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as hisheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
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03-AUG-2000;
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, mela lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Translational profiling; expressed process: cytoskeletal p procease; procease inhibitor; transporter; cytoskeletal p receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adancer; sarcoma; sarcoma; melanoma; lymphoma; leukaemia.
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
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                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
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08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
tragment of a kinase, phosphatase, professe, protesse inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melan lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
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                                                                                                                                                                                                                                                                                                                                                                                                      The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protesse a professorial professori
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      New polypeptides (e.g. cytoskeletal proteins,
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protease inhibitor; transporter;
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(EPT) isolated from human tissue for translational

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RESULT 12
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The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP cc conditions that cause reversible oxidation of PTP; (ii) isolating PTP cc conditions and (iii) determining, under reducing conditions, the level color of PTP; and (iii) determining, under reducing conditions, the level color of PTP; and (iii) determining, under reducing conditions, the level color of the property of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details color of these for these activities are given. The method is used to identify creversibly oxidized PTP, also to identify agents that: (a) reversibly oxidized PTP, also to identify agents that: (a) reversibly oxidized PTP, also to identify agents that: (a) reversibly complete the protein of the property of the protein of the 
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                                                                                                                                                                                                                                                                                                                                                                                                                                       screening for specific mount cancer or autoimmune disease.
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                                                                                                                                                                                                                                                                                                                                                                                                     Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g.
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder; cell-cycle abnormality; enzyme.
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FOLHDCTOV 151 FOLHDCTQV 9 Matches

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RESULT 13
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                                                                                                                                    The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                     Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         sarcoma
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and comparing the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Aziz N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   26-NOV-2002; 2002US-0429739P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-NOV-2003; 2003WO-US038193
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human soft tissue sarcoma-upregulated
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Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       FQLHDCTQV 151
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zlotnik A;
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Pred. No.
Score 52;
Pred. No.
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                           Length 1143;
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RESULT 14
ADR39747
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Query Match
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Matches 9
                                                                                                                 nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antinflammatory and thyromimetic activities, and can be used in gene therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polynucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
                                                                             Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy; developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N-PSDB; ADR39793.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Ramkumar J, Marquis JP, Swarnal
Becha SD, Lee SY, Hafalia AJA,
Jackson AA, Yang J, Gorvad AE;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human kinase and phosphatase KPP-20 protein SEQ ID NO:20
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADR39747 standard; protein; 1192
                                                                                                                                                                                                                                                                                                                                                                                                                          The present sequence represents the human kinase and phosphatase p (KPP), designated KPP-20. The human KPP sequences from the present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 1; SEQ ID NO 20; 299pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                               (KPP), designated KPP-20. The human KPP sequences from the previous anticonvulsant invention have cytostatic, antiarreriosclerotic, anticonvulsant invention have cytostatic, antiarreriosclerotic, anticonvulsant invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (INCY-) INCYTE CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-FEB-2004; 2004WO-US005092.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   human; kinase and phosphatase protein; KPP; enzyme; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               2004-635568/61.
  Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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                    100.0%;
                  100.0%; Score 52; DB 8; Length 1192; 100.0%; Pred. No. 1.1;
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ia AJA, Richardson TW, Khare R,
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  Mismatches
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Sequence 1219 AA;

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                                                                                                                                                                                                              altered risk for myocardial infarction in the individual. The invention if the romprises an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequence given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specificatly binds to the polypeptide or its antigen-binding that specification and which is between about 16 and 1000 nucleotides in fearification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a method of detecting and a method for identifying an agent useful in treating or preventing the method infarction. The novel detection method has cardiant activity.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 200
N-PSDB;
                                                            The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      has an altered risk for developing myocardial infarction. The method comprises detecting a single nuclectide polymorphism (SNP) in any one of the nuclectide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-046312SP.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADQ39378 standard; protein; 1219 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 10; SEQ ID NO 1041; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human myocardial infarction-associated gene derived protein, SEQ ID 1041.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        18-NOV-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cardiant; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           15-JUL-2004.
                                         electronic sequence listing
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RESULT 16
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                                                                                                                                       This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti-
cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and can sepistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (MAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were cidentified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, these compositions exhibit anorectic, antidiabetic and typotensive activities. This polypeptide sequence is a human homologue of a mypotensive activities. This polypeptide sequence is a human homologue of
  Best Local Similarity
                         Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Query Match
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissumice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                           Sequence 1256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Disclosure; SEQ ID
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JUL-2003; 2003WO-US023684.
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100.0%;
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52;
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                    Length 1256;
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RESULT 18 ADQ39376

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Best Local
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                                                                                                                                                                                                                                                                               The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, and individual. The method is also useful in assessing the immune status of an individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lung, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered expression in renal transplantation and expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                  Sequence 1256 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     the genes.
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20-DEC-2002; 2002US-00325899.
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256 FQLHDCTQV
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                                                                                                               Similarity 9; Conserv
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Pred. No.
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                                                                                                                                                                        DB 8;
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ADQ39376 standard; protein; 1258 AA.

18-NOV-2004

(first entry)

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258 FQLHDCTQV 266

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concleic acids, where the presence of the SNP is correlated with an occurrence of the state of the individual. The invention of turther comprises: an isolated nucleic acid molecule comprising at least the specification or its complement and encoding any one of the amino occurrences given in the specification; an isolated polypeptide occurrences given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding occurrences given in the specification; an antibody that specification and which is between about 16 and 1000 nucleotides in occurrence of the polypeptide or its antigen-binding occurrences given in the specification; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in occurrence of the occurrence occurrence of the occurrence occurrence of the occurrence occurrence occurrence of the invention may be used in gene therapy. The occurrence o
     Matches
                                                   Query Match
Best Local :
                                                                                                                                                                                                   Sequence 1258
                                                                                                                                                                                                                                                                                          associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                               composition for treating or preventing myocardial infarction. Thi sequence represents the protein of a human myocardial infarction-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 10; SEQ ID NO 1039; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004058052-A2
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DB; ADQ38548.
Similarity 9; Conserv
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     Conservative
                                                                                                                                                                                                        A,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               therapy; human
                                              100.0%;
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     0
                                                   Score 52; DB 8; Length 1258; Pred. No. 1.1;
          Mismatches
     0
     Indels
     0
     Gaps
0,
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RESULT 19
AD039379
XX AD039
XX AD039
XX AD039
XX INOQUE
XX MYOCA
XX MYOCA
XX MYOCA
XX WO200
XX WO200
XX Homo
XX PR
RR 10-ME
PR 22-DE
PR 22-DE
PR 10-ME
PR 23-SE
XX WPI;
DR N-PSI
XX WPI;
DR N-PSI
XX WPI;
DR N-PSI
XX Claim
XX CC Inne;
CC The;
CC The
                                                                 CC the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an isolated polypeptide comprising an amplified polymoclocitide containing an SNP given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding containing an snP given in the specification and which is between about 16 and 1000 nucleotides in clength; a kit for detecting an SNP in a nucleic acid, comprising the polymouleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a composition for identifying an agent useful in treating or preventing composition for identifying an individual who has an increased or decreased risk for developing myocardial infarction. This composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from core specification downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ADQ39379 standard; protein; 1267 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Claim 10; SEQ ID NO 1042; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  N-PSDB; ADQ38551.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human myocardial infarction-associated gene derived protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           18-NOV-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2004-533949/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               individual who
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Query Match

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RESULT 20
ABU05243
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                                  The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor. The protein of a kinase, protease inhibitor, cytoskeletal protein, receptor or transcription factor. The colypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified protein, receptor or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also cuseful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, cloma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational specification but was obtained in electronic format directly from WIPO at companies of the protein tag (EPT) isolated from the printed directly from WIPO at specification but was obtained in electronic format directly from WIPO at content of the protein tag (EPT) at the printed the printed protein tag (EPT) at the printed the printed specification but was obtained in electronic format directly from WIPO at the printed protein tag (EPT) at the printed printed the printed pr
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Matches 9; Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-MAR-2001;
21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
  Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chicz RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-MAR-2002; 2002WO-US009671.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          major
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       9;
  1304
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                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 1909; 134pp; English.
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2001US-0292544P.
2001US-0310870P.
2001US-0326370P.
2001US-0336780P.
2002US-0336780P.
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AA,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    protein; 1304 AA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Urban
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Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                              polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, pastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPF) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed
                                                                                                                                                                                                                                                                                                                                                                                                          The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; BPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytoskeletal proteins, receptors or transcription factors), useful fo treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
   Sequence 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2003-040607/03.
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                                                                                            specification but was
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                                                          ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              leukemia.
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9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZYCOS INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SEQ ID
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                                                                      The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide, is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class I MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of the colon cancer, gastric cancer
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Sequence 1304 AA
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                                                         ftp.wipo.int/pub/published_pct_sequences
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RESULT 23
ADL16230
ID ADL16
The invention relates to a method for identifying a protein tyrosine CC phosphatase (PTP) that is reversibly oxidized in a cell by: (1) the contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP canactrions that cause reversible oxidation of PTP; (ii) isolating PTP canactrions that cause reversible oxidation of PTP; (ii) isolating PTP canactrions that cause reversible oxidation of PTP; (ii) isolating PTP canactrions and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where considered the pth is present. No details confidentify confidentify reversibly oxidized PTP, also to identify agents that: (a) reversibly condify such PTP; or (b) alter inducible signalling pathways in which PTP care involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); quest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Best Local Similarity
Matches 9; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein tyrosine phosphatase; reversible oxidation; dephosphorylation;
inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
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N-PSDB; ADL16229.
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12-FEB-2003; 2003US-00366547.
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CC genes for targeting in the treatment of rheumatoid arthritis in a mammal cother than a mouse; diagnosis of rheumatoid arthritis in a mammal; and carray or gene chip, specific for rheumatoid arthritis; diagnosis or carray or gene chip, specific for rheumatoid arthritis; diagnosis or compositions of the induced arthritis; and reducing the compositions of the treatment of collagency induced arthritis; and reducing the symptoms associated with collagency of a candidate drug in vitro for the treatment of collagency induced arthritis; and reducing the symptoms associated with collagency of induced arthritis; and reducing the symptoms associated with collagency artifices immunosuppressive, antirheumatic, antiarthritic, osteopathic, antigut, antiinflammatory, dermatological, antiarthritic, osteopathic, compositions of the present invention have the following compositions of the present invention are useful for continuous disease or arthritis, gout, juvenile rheumatoid arthritis, and an immune disease or arthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a composition of the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
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                                                                                                                                                                                                                                                                                                                                                                                                        patient sample containing mRNA, analysing gene expression using the mRNA that results in a gene expression signature of the mRNA, and using that gene expression signature to dispasse or analyse the autoimmune disease or archritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention further comprises: a treatment of rheumatoid arthritis; identification of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumatiantiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Disclosure; Page; 56pp; English.
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                          This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anticle obesity pharmaceutical compositions. Specifically, it refers to a high combility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the observe an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, CC HMGI-C /-, ob/ob, or HMGI-C /-, ob/ob genetype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and treat diabetes. This polypetide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
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                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
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12-JUN-2003; 2003US-0478206P
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tive 0; Mismatches
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The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least 10 contiguous nucleotides of any of the abovementioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer individual, a method for inhibiting growth of cancer cells in an individual, a method for delivering a therapeutic agent to cancer cells in an individual, an electronic library comprising the above polynucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bioactive agent capable of modulating the presence or absence or absence realts in an individual, an electronic library comprising the above polynucleotide or polypeptide (or their fragments), methods of screening for anticancer activity or for a bioactive agent capable of modulating
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Matches 9
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15-APR-2003;
13-JUN-2003;
15-SEP-2003;
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2003US-00461862.
2003US-00663431.
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                                                                                      The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprises; an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide
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                                                                                                                                                                                                                                                                                                                                                                                                                                     Claim 10; SEQ ID NO 1043; 145pp; English.
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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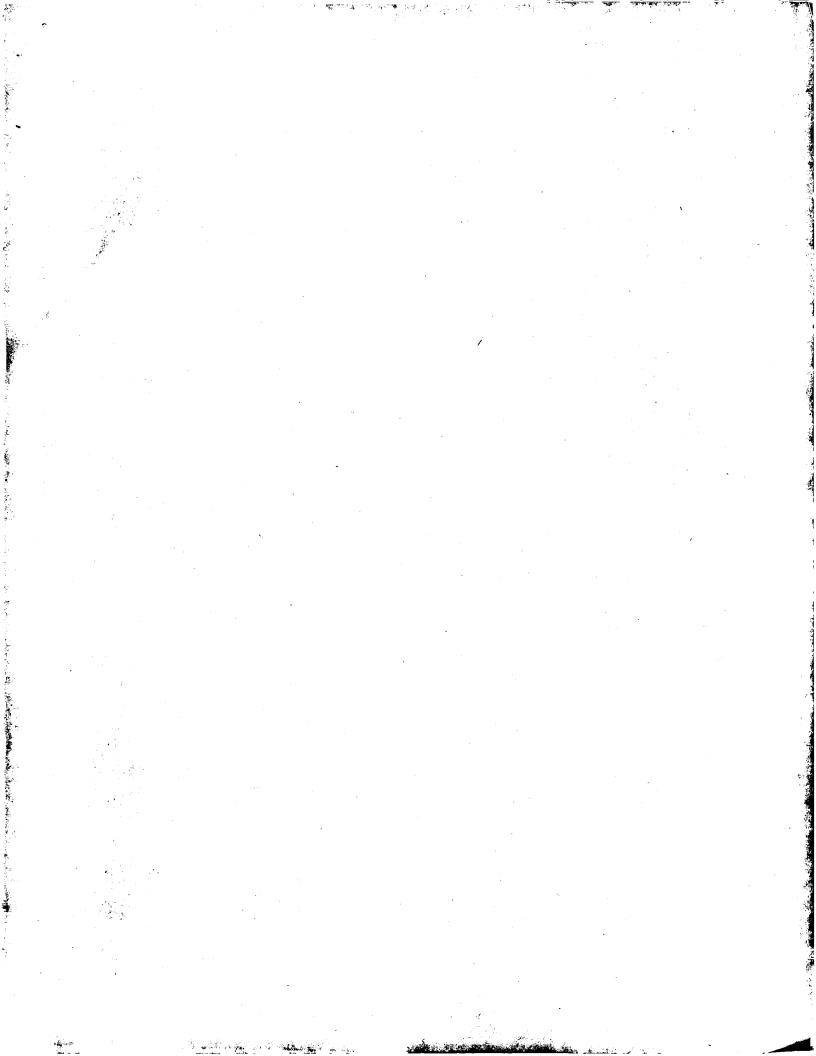
comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the

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RESULT 28
ADQ39375
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Best Local
                                                                                     The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in
                                                                                                                                                                                                                                                                                                                                             Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph: the individual's nucleic acids.
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-533949/51.
N-PSDB; ADQ38547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human myocardial infarction-associated gene derived protein, SEQ ID 1038
                                                                                                                                                                                                                                                                               Claim 10; SEQ ID NO 1038; 145pp; English.
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                                                                                                             Query Match
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Copyright (c) 1993 - 2005 Compugen Ltd
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EMBL; M23461; AAG26082.1; JOINED.
EMBL; M23462; AAG26082.1; JOINED.
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Hall L.R., Streuli M., Schlossman S.F., Saito H.;
"Complete exon-intron organization of the human leukocyte common antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
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Eukaryota; Metazoa;
Mammalia; Eutheria;
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T200 leukocyte common antigen (Fragment).
Name=PTPRC;
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Chordata; Primates;

Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.

34 AA;

3749 MW;

0C261F8943734758 CRC64;

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T200 leukocyte common antigen

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		AA.	34 AA	PRT;	••	PRELIMINARY;	PRELI	Q9H3X6	160 de	D Y
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			ALIGNMENTS	ALIG						
q7 burkholderi	Q621q7			Q62LQ7	2	254	73.5	36	45	
	Q7vim9			Q7VIM9	N	200	73.5	36	44	
25 neurospora	Q7rx25			Q7RX25	N	166	73.5	36	43	
b8 burkholderi	Q63sb8			Q63SB8	N	153	73.5	36	42	
73 clostridium	Q8xk73			Q8XK73	N	138	73.5	36	41	
	Q96xt8			Q96XT8	N	458	75.5	37	40	
	Q6ezh2			Q6EZH2	N	399	75.5	37	39	
66 caenorhabdi	001866			001866	N	253	75.5	37	38	
	Q6£753			Q6F753	N	230	75.5	37	37	
ux8 arabidopsis	Q9fmx8			Q9FMX8	N	198	75.5	37	36	
_	Q97vd0			Q97VD0	N	347	77.6	38	35	
<pre>13 pasteurella</pre>	Q9cj13			Q9CJL3	N	289	77.6	38	34	
x2 streptococc	Q8dtx2			Q8DTX2	Ŋ	272	77.6	38	ω u	
48 methanopyru	Q8th48			Q8TH48	N	78	77.6	38	32	

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SEQUENCE FROM N.A. Takafuji V.A., Sharova L.V., Crisman M.V., Howard R.D.; Submitted (MAY-2002) to the EMBL/GenBank/DDBJ databases. EMBL; AY114350; AAM76678.1;	Ol-OCT-2002 (TrEMBLrel. 22, Created) Ol-OCT-2002 (TrEMBLrel. 22, Last sequence update) Ol-OCT-2002 (TrEMBLrel. 22, Last annotation update) Leukocyte common antigen (Fragment). Equus caballus (Horse). Eduus caballus (Horse). Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Perissodactyla; Equidae; Equus. NCBI_TaxID=9796; [1]	2 BMIN3 BMIN3;	1 KLLAFGFAFL 10 6 KLLAFGFAFL 15	Query Match 100.0%; Score 49; DB 2; Length 34; Best Local Similarity 100.0%; Pred. No. 0.14; Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps

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05-JUL-2004
05-JUL-2004
                                                                                                                       Lutje V., McKeever D.J.;
"The CD45 locus in cattle: allelic polymorphism and evidence for exceptional positive natural selection.";
Immunogenetics 25:276-283(2001).
EMBL; AJ400865; CACC5415.1; -.
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SEQUENCE
                  InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like
Pfam; PF000041; fn3; 2.
SMART; SM00060; FN3; 3.
PROSITE; PS50853; FN3; 2.
NON_TER 453 453
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01-MAR-2001 (TrEMBLrel.
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Submitted (MAR-2004) to the
Submitted (MAR-2004) to the
EMBL, AY567999; AAS75254.1;
MON TER 240 240
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STRAIN-BOYAN, TISSUE-Peripheral blood;
MEDLINE-2111514; PubMed=11220630; DOI:
Ballingall K.T., Waibochi L., Holmes E
                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa;
Mammalia; Eutheria;
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Mammalia; Eutheria;
  SEQUENCE
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rosine phosphatase (Fragment).
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es B.C., Woelk C.H., MacHugh N.D.,
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RESULT 6
Q9GMB4
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Q6SZ80
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Best Local S
Matches 10
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Best Local S
Matches 10
                                                                                                                                                                                                           Q9GMB4
Q9GMB4;
01-MAR-2001
01-MAR-2001
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           05-JUL-2004
05-JUL-2004
05-JUL-2004
     SEQUENCE FROM N.A.
TISSUB-Peripheral blood;
TISSUB-Peripheral blood;
MEDLINE-21115144; PubMed=11220630; DOI=10.1007/8002510000276;
Ballingall K.T., Waibochi L., Holmes E.C., Woelk C.H., MacHugl
Lutje V., McKeever D.J.;
"The CD45 locus in cattle: allelic polymorphism and evidence i exceptional positive natural selection.";
Immunogenetics 52:276-283(2001).
EMBL; AJ400864; CACOS417.1;
TEMBL; AJ400864; CACOS417.1;
                                                                                                             NCBI_TaxID=9913;
                                                                                                                              Eukaryota; Metazoa;
Mammalia; Eutheria;
Bovinae; Bos.
                                                                                                                                                                                              01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
                                                                                                                                                                                                                                                                                                                                                                                                   Hydrolase.
                                                                                                                                                                                                                                                                                                                                                                                                                       InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
Pfam; PF00401; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS50853; FN3; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; AY444871; AAR16435.1; -.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phosphatase activity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQUENCE FROM N.A. Schnitzlein W.M., Zuckermann Submitted (OCT-2003) to the E
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     CD45 antigen isoform 6 (EC Name=CD45;
                                                                                                                                                             Bos taurus
                                                                                                                                                                                   Membrane tyrosine phosphatase (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sus scrofa
                                                                                                                                                                           Name=cd45;
                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q6SZ80;
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IPR003961;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (Pig)
                                                                                                                                                                 (Bovine).
                                                                                                                                                                                                                                                                                                                                                                                         454 AA;
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                                                                                                                                                                                                                                                                                                                                             100.0%;
ilarity 100.0%;
Conservative (
                                                                                                                                                                                                                                                                                                                                                                                                      454
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                                                                                                                                                                                                                                            PRELIMINARY;
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                                                                                                                                                                                                                                                                                                                                                                                                      454
                                                                                                                                        Chordata; Craniata; Vertebrata; Euteleostomi; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
FN III.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              to the EMBL/GenBank/DDBJ
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27,
27,
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, Last annotation update)
3.1.3.48) (Fragment).
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                         Score 49;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                          9FD5CCAEE96DF48B CRC64;
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                                                              C.H., MacHugh N.D.,
                                                                                                                                                                                                                                                                                                                                               Indels
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Sus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0,
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RESULT
OGMB5
AC Q9
  RR OCCOORDINATE
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Matches
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Best Local (
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SMART; SM00060; FN3; 3.

PROSITE; PS50853; FN3; 2.

NON TER 461 461

SEQUENCE 461 AA; 51941!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation update)
Membrane tyrosine phosphatase (Fragment).
                                                                                                                                                                                  01-MAR-2001 (TrEMBLrel. 16, Created)
01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
01-MAR-2004 (TrEMBLrel. 26, Last annotation updat
Membrane tyrosine phosphatase (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             exceptional positive natural selection.", Immunogenetics 52:276-283(2001).
EMBL, AJ400866; CAC05416.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQUENCE FROM N.A.
STRAIN=Boran; TISSUE=Peripheral blood;
MEDLINE=2111514; PubMed=11220630; DOI=10.1007/s002510000276;
Ballingall K.T., Waibochi L., Holmes E.C., Woelk C.H., MacHug
Lutje V., McKeever D.J.;
                                                                                        Eukaryota; Metazoa; Chordata; Craniat
Mammalia; Eutheria; Cetartiodactyla;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS50853; FN3; 2.
NON TER 463 463
SEQUENCE FROM N.A
                                                                      Bovinae;
                                                                                                                                       Syncerus caffer (Cape
                                                                                                                                                                   Name=cd45;
                                                                                                                                                                                                                                                                                         Q9GMB1;
                                                                                                                                                                                                                                                                                                                Q9GMB1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Lutje V., McKeever D.J.;
"The CD45 locus in cattle: allelic polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=9915;
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Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Bos indicus (Zebu).
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10; Conserv
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                                                                      Syncerus.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 463 AA;
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                                                                                                                                          buffalo)
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                                                                                        Craniata; Vertebrata; Euteleostomi;
actyla; Ruminantia; Pecora; Bovidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Score 49; DB 2; Length 463; Pred. No. 1.2;
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Pred. No. 1
                                                                                                                                                                                                                                                                                                              PRT;
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1.2;
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RESULT 10
Q6SZ82
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Q6SZ81
    SSETTTRE
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Best Local S
Matches 10
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Best Local 9
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SMART; SM00060; FN3; 2.

PROSITE; PS50853; FN3; 2.

NON TER 465 465

SEQUENCE 465 AA; 52289 N
                   Q6SZ82;
Q6SZ82;
05-JUL-2004 (;
05-JUL-2004 (;
05-JUL-2004 (;
CD45 antigen ;
Name=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Q6SZ81;
05-JUL-2004
05-JUL-2004
05-JUL-2004
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MEDLINE-21115144; PubMed=11220630; DOI=10.1007/s002510000276;
Ballingall K.T., Waibochi L., Holmes E.C., Woelk C.H., MacHugh N.D.,
Lutje V, McKeever D.J.;
"The CD45 locus in cattle: allelic polymorphism and evidence for
exceptional positive natural selection.";
Immunogenetics 52:276-283(2001).
EMBL; AJ400867; CACO5420.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Schnitzlein W.M., Zuckermann F.A.;

Submitted (OCT-2003) to the EMBL/GenBank/DDBJ d

EMBL; AX444870; ARA16434.1; -

GO; GO:0016787; F:hydrolase activity; IEA.

GO; GO:0004725; F:protein tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                           Hydrolase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
Pfam; PF00041; fn3; 2.
SMART; SM00660; FN3; 2.
PROSITE; PS50853; FN3; 2.
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Mammalia; Eutheria;
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Name=CD45;
    Sus scrofa
                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE
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InterPro; IPR008957; FN_III-like.
                                                                                                                                                                                                                                                                                 1 KLLAFGFAFL
                                                                                                                                                                                                                                                                                                                                   l Similarity
10; Conserv
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(Pig).
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                                                              (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
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(TIEMBLrel. 27, Last sequence update)
(TIEMBLrel. 27, Last annotation update)
1 isoform 5 (EC 3.1.3.48) (Fragment).
                                                                                                                                                 PRELIMINARY;
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, Last sequence update)
, Last annotation update)
3.1.3.48) (Fragment).
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Pred. No.
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Pred. No.
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RESULT 12
Q6SZ84
ID Q6SZ8
AC Q6SZ8
DT 05-JU
DT 05-JU
DT 05-JU
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Q6SZ83
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Matches 10
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Best Local 9
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Submitted (OCT-2003) to the EMBL/GenBank/DDBJ dat.
Submitted (OCT-2003) to the EMBL/GenBank/DDBJ dat.
EMBL; AY444869; AAR16433.1; -.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phosphatase activity: IEA.
GO; GO:0004725; F:protein tyrosine phosphatase activity: IEA.
GO; GO:0004725; F:N_III.
InterPro; IPR003957; F:N_III-like.
PEam; PP00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS50853; FN3; 2.
Q6SZ84;
05-JUL-2004
05-JUL-2004
05-JUL-2004
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05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
Schnitzlein W.M., Zuckermann F.A.;
Schnitzlein (OCT-2003) to the EMBL/GenBank/DDBJ
Submitted (OCT-2003) to the EMBL/GenBank/DDBJ
EMBL; AY444868; ARR16433.1; -.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                             InterPro; IPR003961; FN III.
InterPro; IPR008957; FN III-like.
Pfam; PP00041; fn3; 2.
SMART; SM00060; FN3; 2.
                                                                                   Q6SZ84
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Mammalia; Eutheria;
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Mammalia; I
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                                                                                                                                                                                                                                                                                                                                                              517
517 AA;
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  (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
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57184 MW;
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Cetartiodactyla; Suina;
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. 27, Last sequence update)
. 27, Last annotation updat
. 27, Last annotation updat
  27,
27,
27,
Created)
Last sequence update)
Last annotation updat
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Pred. No.
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Pred. No.
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ina; Suidae;
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Sus.
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Q6PJK7
ID Q6PJK
AC Q6PJK
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RESULT 13
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Matches 10
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Best Local
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Q6SZ85;
05-JUL-2004
05-JUL-2004
05-JUL-2004
                                                                                                                                                                                                  Hydrolase.
                                                                                                                                                                                                                                          EMBL; AY444866; AAR16430.1; -.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:004725; F:protein tyrosine phosphatase InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
EROSITE; PS50853; FN3; 2.
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EMBL, AY444867; AAR16431.1; -.
GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phosphatase activity;
InterPro; IPR003961; FN_III.
InterPro; IPR003957; FN_III-like.
Pfam; PF00041; fn3; 2.
SMART; SM00060; FN3; 2.
PROSITE; PS50853; FN3; 2.
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Mammalia; Eutheria;
NCBI_TaxID=9823;
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05-UTL-2004 (TYEMBLrel. 27, Last sequence update)
05-UTL-2004 (TYEMBLrel. 27, Last annotation update)
CD45 antigen isoform 1 (EC 3.1.3.48) (Fragment).
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Name=CD45;
Sus excords (Pig).
Eukaryota; Metazoa; Chordata; Craniata; Vertebra:
Mammalia; Eutheria; Cetartiodactyla; Suina; Suid:
NCBI_TaxID=9823;
                                                                                                                                                                                                                                                                                                                                                                                                                            Schnitzlein W.M., Zuckermann Submitted (OCT-2003) to the I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Name=CD45
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                                                                                                           Similarity
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                              KLLAFGFAFL
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KLLAFGFAFL
                                                                                                                                                                           583 AA;
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567 AA;
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62298 MW;
15
                                                                                                                                                                               63951 MW;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10
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Cetartiodactyla; Suina; Suidae;
                                                                                                         100.0%;
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Pred. No. 1.4;
0; Mismatches
                                                                                      Score 49; DB 2
Pred. No. 1.4;
0; Mismatches
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                                                                                                                                Length 583;
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Sus.
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Sus.
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Q6PJK7 Q6PJK7;

PRELIMINARY;

PRT;

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Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

Klausner R.D., Collins F.S., Wagner L., Shemmen C.M., Schuler G.D.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

A Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

A Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

A Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Villalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

A Pahey J., Helton E., Ketteman M., Madan A., Garcia B.M., Gay L.J.,

A Hilling M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

A Krzywinski M.I., Skalska U., Smailus D.E., Schnerch A., Schein J.E.,

A Jones S. J. Marra M.A.
                        Q6ED60;
25-OCT-2004
25-OCT-2004
25-OCT-2004
CD45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NON TER
SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 1.
PROSITE; PSS0853; FN3; 2.
PROSITE; PS50055; TYR PHOSPHATASE_PTP; 1.
NON_TER 756 756
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
InterPro; IPR000242; Tyr_PP.
Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase; 1.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Submitted (SEP-2001) to the EMBL/GenBank/DDBJ databases. EMBL; BC014239; AAH14239.1; -. HSSP; P18031; LAAX.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Homo sapiens (Human).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
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Strausberg R.;
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05-JUL-2004 (TrEMBLrel. 2
PTPRC protein (Fragment).
Aotus vociferans
                                                                                                                                                                           Q6ED60
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c. Natl. Acad. Sci. U.S.A.
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10; Conserv
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                                                    (TrEMBLrel. (TrEMBLrel. (TrEMBLrel.
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                                                                                                                                                                           PRELIMINARY;
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(Spix's owl monkey)
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27,
27,
                                                Last sequence upon Last annotation v
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Last annotation updat
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                                                                                     sequence update)
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QGEDGA
QGEDGA
QGEDGA
AC QGEDG
AC QGEDG
DT 25-QC
DT 25-QC
DT 25-QC
DE CD45.
OS Actual
OC Mamma
OC MAMMA
OC NCBI_
RN [1]
RN [1]
RN [1]
RN [1]
RT VEOMP
RT INTER
DR INTER
DR INTER
DR Pfam;
DR SMARTI
DR SMARTI
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Best Local S
Matches 10
                                                                                                  Tissue Antigens 64:165-172(2004).

EMBL; AY445817; AAS06902.1; -.
GO; GO:0004725; F:protein tyrosine phos
GO; GO:0006470; P:protein amino acid de
InterPro; IPR003961; FN III.

InterPro; IPR003957; FN III-like.
InterPro; IPR003957; TYR_phosphatase.
InterPro; IPR00337; TYR_phosphatase.
                                                                                                                                                                                                                                                                                                                                                                               Q6ED61;
25-OCT-2004
25-OCT-2004
25-OCT-2004
CD45.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Pram; PF00041; fn3; 2.
Pfam; PF00102; Y phosphatase;
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3.
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Mammalia; Eutheria; I
NCBI_TaxID=57176;
[1]
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EMBL, AY445818, AASO6903.1; -

GO; GO:0004725; F:protein tyrosine phosphatase activity;

GO; GO:0006470; P:protein amino acid dephosphorylation; I
InterPro; IPR003961; FN III.
InterPro; IPR003957; FN III-like.
InterPro; IPR003595; PTPC motif.
InterPro; IPR003597; TYR_phosphatase.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000387; TYR_phosphatase.
            Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y phosphatase;
PRINTS; PR00700; PRTYPHPHTASE
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS00383; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                    Bukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                 Aotus nancymaae (Ma's night monkey).
Bukaryota; Metazoa; Chordata; Crania
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Q6ED61
                                                                                                                                                                                                                                          Montoya G.E., Vernot J.P., Patarroyo M.E. "Comparative analysis of CD45 protein in
                                                                                                                                                                                                                                                                      PubMed=15245371;
                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=37293;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
                                                                                          InterPro;
                                                                                                                                                                                                                               vs. human.";
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SM00060;
SM00194;
SM00404;
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10; Conserv
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 PTPC;
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of CD45 ⋅
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                                                                                                                                                                                                                                                                                                                                      Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            145616
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                                                                                                                                                               ine phosphatase activity; IEA acid dephosphorylation; IEA.
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                                                                                                                                                                                                                                                                                                                                                                                                               sequence
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2.7;
                                                                                                                                                                                                                                          primate context: owl monkeys
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IEA.
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CD45 HUMAN STANDARD;
ID CD45 HUMAN STANDARD;
AC P08575; Q16614; Q9H0Y6;
DT 01-AUG-1988 (Rel. 08, Cre
DT 10-OCT-2003 (Rel. 44, Las
DT 05-JUL-2004 (Rel. 44, Las
DT 10-UL-2004 (Rel. 44, Las
                                                                                                                                                                                                                                                                                                                                                                                                                          RESULTATION OF THE PROPERTY OF
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                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                     Interpro; IPR00395; FW III.
Interpro; IPR00395; FW III-like.
Interpro; IPR00395; FTPC motif.
Interpro; IPR003595; PTPC motif.
Interpro; IPR000387; TYR phosphatase.
Interpro; IPR000242; Tyr_PP.
Pfam; PF000102; Y phosphatase; 2.
Pfam; PF00102; Y phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM000404; PTPC; D.
SMART; SM000404; PTPC; D.
SMART; SM00194; PTPC; motif; 2.
PROSITE; PS50085; FN3; 2.
PROSITE; PS50085; FN3; 2.
PROSITE; PS50085; TYR_PHOSPHATASE_1; 2.
PROSITE; PS50085; TYR_PHOSPHATASE_PTP; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Q6ED62;
25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               PROSITE; PS50853; FN3; 2.
PROSITE; PS500383; TYR_PHOSPHATASE 1; 2.
PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
Hydrolase.
SEQUENCE 1303 AA; 146929 MW; DOEBOC64
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              8
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tissue Antigens
EMBL; AY445816;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Montoya G.E., Vernot i
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQUENCE FROM N.A.
PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      NCBI_TaxID=57175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Q6ED62
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       GO:0004725; F:protein tyrosine phosphatase activity; GO:0006470; P:protein amino acid dephosphorylation; 1
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                                                                                                                                                                                                                                                                                                                                                           Similarity
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                                                                                                                                                                                                                                                                                       KLLAFGFAFL
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(Rel. 42, Last sequence update)
(Rel. 44, Last sequence update)
(Rel. 44, Last annotation update)
ommon antigen precursor (EC 3.1.3.48)
                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Conservative
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                                                                                                                    STANDARD;
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AAS06901.1; -.
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s of CD45 protein
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Last annotation updat
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Score 49;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Craniata; Vertebrata; Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                        Score 49;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               owl monkey)
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                                                                                                                                                                                                                                                                                                                                  Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         DB 2;
2.7;
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                                                                                                                                                                                                                                                                                                                                                                            Length 1303;
  (L-CA) (CD45 antigen)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              context:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               CRC64;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Euteleostomi;
Aotinae; Aotus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ; IEA.
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TISSUE=Lymphocytes;
MEDLINE=88061067; PubMed=2824653;
Streuli M., Hall L.R., Saga Y., Schlos
"Differential usage of three exons gen
mRNAs encoding human leukocyte common
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=89017162; PubMed=2845400;
Charbonneau H., Tonks N.K., Walsh K.A., Fischer
"The leukocyte common antigen (CD45): a putative
protein tyrosine phosphatase.";
Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186(1988)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         EMBO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           MUTAGENESSS: PubMed=1695146;
MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
"Distinct functional roles of the two intracellular phosphatases like "Distinct functional roles of the two intracellular phosphatases LCA and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   MEDLINE-89009812; PubMed-2971730;
Hall L.R., Streuli M., Schlossman S.F.,
"Complete exon-intron organization of t
antigen (CD45) gene.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        EMBO
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MEDLINE=87275816; Pubmed=295690;
Ralph S.J. Thomas M.L., Morton C.
"Structural variants of human T200
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                first one.
-!- CATALYTIC ACTIVITY: Protein tyrosine phosphate +
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE OF 191-1304 FROM
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                antigen).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       J. Exp. Med.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MUTAGENESIS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Immunol. 141:2781-2787 (1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                 FUNCTION: Required for T-cell activation through receptor. The first PTPase domain has enzymatic at the second one seems to affect the substrate spec
PTM: Heavily N- and O-glycosylated.
SIMILARITY: Belongs to the protein-tyrosine phospha
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WWWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                                                                                                                        tyrosine + phosphate.
SUBUNIT: Binds GANAB and PRKCSH (By similarity SUBCELLULAR LOCATION: Type I membrane protein ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                          Event=Alternative splicing; Named isoforms=2; Comment=At least 8 isoforms are produced;
                                                                                                                                                                                            Name=2
                                                                                                                                                                                                                                           Name=1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        J. 6:1251-1257(1987)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             J. 9:2399-2407(1990)
                                                                                                                                                                      IsoId=P08575-2;
                                                                                                                                                                                                                  IsoId=P08575-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         166:1548-1566(1987).
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                                                                                                                                                                                                                Sequence=Displayed;
                                                                                                                                                                    Sequence=VSP_007780;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   AND
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          C.C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AND
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                                                                                                                                                                                                                                                                                                                                                            (By similarity)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ALTERNATIVE SPLICING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ALTERNATIVE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 the human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antigens.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               putative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 leukocyte
                                                                                                                        phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   SPLICING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (leukocyte-common
                                                                                                                                                                                                                                                                                                                                                                                                                                                    specificity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               receptor-linked
                                                                                                                                                                                                                                                                                                                                                                                                          H(2)O = protein
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five
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vity, while
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         of.
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send an

email

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license@isb-sib.ch).

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DR EMBL; Y00638; CAA68659.1; -.

BRILL; Y00628; CAA68269.1; -.

BRILL; Y00628; CAA68269.1; -.

BRILL; W23496; AAD15277.2; JOINED.

BRILL; W23496; AAD15277.2; JOINED.

BRILL; W23466; AAD15273.2; JOINED.

BRILL; W23468; AAD15273.2; JOINED.

BRILL; W23470; AAD15273.2; JOINED.

BRILL; W23470; AAD15273.2; JOINED.

BRILL; W23471; AAD15273.2; JOINED.

BRILL; W23471; AAD15273.2; JOINED.

BRILL; W23473; AAD15273.2; JOINED.

BRILL; W23474; AAD15273.2; JOINED.

BRILL; W23476; AAD15273.2; JOINED.

BRILL; W23478; AAD15273.2; JOINED.

BRILL; W23481; AAD15273.2; JOINED.

BRILL; W23481; AAD15273.2; JOINED.

BRILL; W23481; AAD15273.2; JOINED.

BRILL; W23484; AAD15273.2; JOINED.

BRILL; W23484; AAD15273.2; JOINED.

BRILL; W23484; AAD15273.2; JOINED.

BRILL; W23488; AAD15273.2; JOINED.

BRILL; W23489; AAD15273.2; JOINED.

BRILL; 
                                                                                                       Phosphorylation; I
Transmembrane.
SIGNAL 1
CHAIN 24
DOMAIN 24
TRANSMEM 576
DOMAIN 598
DOMAIN 390
DOMAIN 482
DOMAIN 670
DOMAIN 670
DOMAIN 961
ACT_SITE 851
ACT_SITE 1167
   CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
CARBOHYD
     78
90
95
184
190
197
                                                                                                              23
1304
575
597
1304
478
478
919
1235
1235
1235
Leukocyte common antigen.
Extracellular (Potential).
Potential.
Cytoplasmic (Potential).
Fibronectin type-III 1.
Fibronectin type-III 2.
Protein-tyrosine phosphatase 1.
Protein-tyrosine phosphatase 2.
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Copyright (c) 1993 - 2005 Compugen Ltd.
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ALIGNMENTS

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A,Map position: 1q31-1q32

C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain homol C;Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic domain; phosphoric monoester hyd c;Keywords: alternative splicing; glycoprotetin; phosphorotetin; phosphoric monology <LAC>
F;594-1235/Domain: protein-tyrosine-phosphatase homology <PTP>
F;675-899/Domain: protein-tyrosine-phosphatase homology <PTP>
F;851/Active site: Cys (phosphocysteine intermediate) #status predicted
                                                                                                                                                                                                                                                                                                                               A;Gene: FlyBase:Ptp99A
A;Cross-references: FlyBase:PBgn004369
C;Superfamily: protein-tyrosine-phosphatase, receptor type 99A; fibronectin type III repC;Superfamily: protein-tyrosine-phosphatase, receptor type 99A; fibronectin type III repC;Superfamily: protein-tyrosine-phosphoprotein; phosphoproic monoester hydrolase; transm C;Keywords: alternative splicing; phosphoprotein; phosphoric monoester hydrolase; transm F;1-29/Domain: signal sequence #status predicted <SIG>
Tignal protein-tyrosine-phosphatase, receptor type 99A #status predicted <MA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A;Accession: #41413
A;Molecule type: mENA
A;Residues: 1-585,'R',587-1049,1120-1184,'S',1186-1301 <TIA>
A;Cross-references: GB:M80539
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type 99A precursor - fruit fly (D N;Alternate names: phosphotyrosine phosphatase 99A C;Species: Drosophila melanogaster C;Date: 10-Sep-1999 #sequence revision 10-Sep-1999 #text_change 09-Jul-2004 C;Accession: A41622; A41214; B41215 R;Hariharan, I.K.; Chuang, P.T.; Rubin, G.M. Proc. Natl. Acad. Sci. U.S.A. 88, 11266-11270, 1991 A;Reference number: A41622; MUID:92107930; PMID:1662390 A;Accession: A41622; MUID:92107930; PMID:1662390 A;Accession: A41622; MUID:92107930; PMID:1662390
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A;Residues: 1-1301 <HAR>
A;Residues: 1-1301 <HAR>
A;Crose-references: UNIPROT:P35832; GB:M81795; NID:g157293;
R;Yang, X.; Seow, K.T.; Bahri, S.M.; Oon, S.H.; Chia, W.
Cell 67, 661-673, 1991
A;Title: Two Drosophila receptor-like tyrosine phosphatase @
A;Reference number: A41214; MUID:92034988; PMID:1657401
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A;Gene: GDB:PTPRC; CD45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Accession: B41214
A;Molecule type: mRNA
A;Residues: 1-585,'R',587-1049,1290-1301 <YA2>
A;Cross-references: GB:M80464
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A;Molecule type: mRNA
A;Residues: 1-585,'R',587-1049,1120-1204,'H',1206-1301 <YAN>
A;Cross-references: GB:M80464; NID:g157299; PIDN:AAA28486.1;
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Matches 10
                                                                                                                                                          30-1301/Product: protein-tyrosine-phosphatase, receptor type 99A #status predicted <MP;30-1049,1120-1301/Product: protein-tyrosine-phosphatase, receptor type 99A, medium spl
30-1049,1290-1301/Product: protein-tyrosine-phosphatase, receptor type 99A, short spli;393-416/Domain: transmembrane #status predicted <TMM>;502-730/Domain: protein-tyrosine-phosphatase homology <PTP>;789-1005/Domain: protein-tyrosine-phosphatase homology <PTP2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ;Cross-references: GB:M80464
;Tian, S.S.; Tsoulfas, P.; Zinn, K.
ell 67, 675-685, 1991
                                                                                              1059-1091/Region: glutamine-rich 682/Active site: Cys (phosphocysteine intermediate) #status predicted
      Query
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      Match
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outer membrane protein P1 precursor - (;Species: Haemophilus influenzae C;Date: 18-Aug-1995 #sequence_revision C;Accession: F64065 R;Fleischmann, R.D.; Adams, M.D.; Whit
                                                                                                                                                                 RESULT
F64065
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A;Cross-references: UNIPROT:Q00754; GB:M27683
C;Superfamily: long-chain fatty acid transport protein fadL
C;Keywords: membrane protein
F;1-22/Domain: signal sequence #status predicted <SIG>
F;23-450/Product: outer membrane protein P1 #status predicted <MAT>
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R;Munson Jr., R; Grass, S.; Einhorn, M.; Bailey, C.; Newell, C.
Infect. Immun. 57, 3300-3305, 1989

A;Title: Comparative analysis of the structures of the outer membrane protein A;Reference number: A40183; MUID:90035394; PMID:2572549

A;Accession: B40183
                                                                                                                                                                                                                                           A;Reference number: A40183;
A;Accession: A40183
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-455 <MUN>
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A;Tille: Comparative analysis of the structures of the outer A;Reference number: A40183; MUID:90035394; PMID:2572549
                                                                                                                                                                                                                                                                                                                                                                                             C;Species: Haemophilus influenzae
C;Date: 28-Oct-1992 #sequence_revision 30-Jan-1993 #text_change 09-Jul-2004
C;Accession: A40183
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              RESULT
B40183
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F;1-22/Domain: signal sequence #status predicted <SIG>
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A; Residues: 1-450 < MUN>
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                                                                                          Pred. No. 15;
                                                                                                            Score 43;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Pred. No.
                                                                            Mismatches
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15;
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                                                                                                                                                 #status predicted
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                                                                                                              Length 455
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#sequence_revision Adams, M.D.; White,

Haemophilus influenzae (strain Rd KW20) 18-Aug-1995 #text_change 09-Jul-2004

O.; Clayton, R.A.; Kirkness, E.F.; Kerlavage,

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R:Munson Jr., R.; Grass, S.
Infect. Immun. 56, 2235-2242, 1988
A;Title: Purification, cloning, and sequence of outer membrane
A;Reference number: A30510; MUID:88314258; PMID:2842261
A;Cross-references: UNIPROT:Q97Q83; A;Experimental source: strain TIGR4 C;Genetics:
                                                                                                                                                                                          R;Tettelin, H.; Nelson, K.B.; Paulsen, I.T.; Eisen, J.A. on, J.D.; Umayam, L.A.; White, O.; Salzberg, S.L.; Lewis, nson, T.; Hickey, E.K.; Holt, I.E. Science 293, 498-506, 2001
A;Authors: Loftus, B.J.; Yang, F.; Smith, H.O.; Venter, A;Reference number: A95000; MUID:21357209; PMID:11463916
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    A;Cross-references: UNIPROT:P10641; GB:J03381; NID:g148952; C;Superfamily: long-chain fatty acid transport protein fadL C;Keywords: membrane protein #status predicted <SIG>F;1-22/Domain: signal sequence #status predicted <SIG>F;23-459/Product: outer membrane protein P1 #status predicted
                                                                                  A; Molecule type: DNA
A; Residues: 1-646 < KUR>
                                                                                                                                                                  A; Reference number: A95000; A; Accession: H95155
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C;Superfamily: long-chain fatty acid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ; Gocayne, J.D.; Scott, J.; Shirley, R.; Liu, D.M.; Brandon, R.C.; Fine, L.D.; Fritchman, Science 269, 496-512, 1995
                                                                                                                                     A;Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                 C; Accession:
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Accession: H95155
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Best Local (
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Pred. No. 15;
                                                     GB:AE005672; PIDN:AAK75441.1; PID:g14972826; GSPDB:
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                                                                                                                                                                                                                                                                                                                                  , J.A.; Read, T.D.; Peterson, S.; Hei
Lewis, M.R.; Radune, D.; Holtzapple,
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                                                                                                                                                                                                                     J.C.; Dougherty,
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                                                                                                                                                                                                                                                     Morrison
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                                                                                                                                                                                                                                                                                                                                  R;Brown, D.; Churcher, C.M.; Barrell
submitted to the EMBL Data Library,
A;Reference number: Z21792
A;Accession: T38410
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Molecule type: DNA
A; Residues: 1-550 <OTT>
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                                                                                                                                                                                             A; Experimental source:
                                                                                                                                                                                                                           A; Cross-references:
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A; Residues: 1-550 < BRO>
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A;Accession: A40449
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A; Residues: 1-646 < KUR>
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L.I.; Glodek, A.; Kelley, J.M.; Weidman, J.L.; Fuhrmann, J.L.; Geoghagen, N.S.M.
A;Gene: SPAC26F1.10c
A;Map position: 1
C;Superfamily: Schizosaccharomyces protein-tyrosine-phosphatase, nonreceptor type pypl;
C;Superfamily: Schizosaccharomyces protein-tyrosine-phosphatase, tyrosine-specific phosphata
C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphata
F;295-528/Domain: protein-tyrosine-phosphatase homology <PTP>
F;470/Active site: Cys (phosphocysteine intermediate) #status predicted
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A;Authors: Yang, Y.; Young-Bellido, M.; Zhao, G.; Zook, A;Title: Genome of the Bacterium Streptococcus pneumonia; Reference number: A97872; MUID:21429245; PMID:1154423
                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: UNIPROT:P27574; GB:M63257; NID:g173441; PIDN:AAA35328.1; PID:g17344 R;Brown, D.; Churcher, C.M.; Barrell, B.G.; Rajandream, M.A.; Walsh, S.V. submitted to the EMBL Data Library, April 1996
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Ottilie, S.; Chernoff, J.; Hannig, G.; Hoffman, C.S.; Erikson, R.L. Proc. Natl. Acad. Sci. U.S.A. 88, 3455-3455, 1991
A;Title: A fission-yeast gene encoding a protein with features of protein-tyrosine-phose A;Reference number: A40449; MUID:91195370; PMID:1849659
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   C;Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change
C;Accession: A40449; T38410
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protein-tyrosine-phosphatase (EC 3.1.3.48), nonreceptor type pypl - fission yeast (Schi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  C; Keywords: hydrolase; serine proteinase
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                                                                                                                                                                                                                                  EMBL:Z73100; PIDN:CAA97367.1; GSPDB:GN00066; SPDB:SPAC26F1.10c
ce: strain 972h-; cosmid c26F1
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Pred. No.
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PMID:11544234
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J.; Matsushima, P.; McAhren,
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Hae Strain )
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RESULT 12
S19585
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A,Molecule type: mRNA
A;Residues: 1-1237 <FAN>
A;Cross-references: UNIPROT:Q91976; EMBL:Z21960; NID:g510510; PIDN:CAA79972.1; PID:g5105
A;Cross-references: UNIPROT:Q91976; EMBL:Z21960; NID:g510510; PIDN:CAA79972.1; PID:g5105
C;Superfamily: leukocyte common antigen; leukocyte common antigen; phydrolase; tyrosine-specific phosphatas
C;Keywords: phosphoprotein; phosphorom antigen cytosolic domain homology <LAC>
F;528-1170/Domain: leukocyte common antigen cytosolic domain homology <LAC>
F;510-834/Domain: protein-tyrosine-phosphatase homology <PTP>
F;786/Active site: Cys (phosphorysteine intermediate) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type delta precursor - c (;Species: Gallus gallus (chicken)
C;Date: 02-Aug-194 #sequence_revision 02-Aug-1994 #text_change 09-Jul-2004
C;Accession: A54080; I50592
R;Fang, K.S.; Barker, K.; Sudol, M.; Hanafusa, H.
J. Biol. Chem. 269, 14056-14063, 1994
A;Title: A transmembrane protein-tyrosine phosphatase contains spectrin-like
A;Reference number: A54080; MUID:94245724; PMID:8188686
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serotonin transport protein -
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C;Date: 01-Dec-2000 #sequence_revision 01-Dec-2000
C;Accession: H83712
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A; Accession: H83712
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Nucleic Acids Res. 28, 4317-4331, 2000
A;Title: Complete genome sequence of the alkaliphilic bacterium Bacillus halodurans and
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Pred. No.
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Pred. No.
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RESULT
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C;Date: 13-Jan-1995 #sequence_revision 13-JaC;Accession: S19585
R;Blakely, R.D.; Berson, H.E.; Fremeau Jr.,
Nature 354, 66-70, 1991
A;Title: Cloning and expression of a function
                                                                                                                                      A;Molecule type: mRNA
A;Residues: 1-382 <MOR>
A;Residues: 1-382 <MOR>
A;Cross-references: UNIPROT:Q63745; GB:D38072; NID:g567262; PIDN:BAA07266.1; PID:g699627
C;Superfamily: protein-tyrosine-phosphatase, nonreceptor type 12; protein-tyrosine-phosp
C;Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific phosphatas
                                                                                                                                                                                                                                                         FEBS Lett. 353, 305-308, 1994

A;Title: cDNA cloning of a cytosolic protein tyrosine phosphatase
A;Reference number: S48748; MUID:95046282; PMID:7957881

A;Accession: S48748
                                                                                                                                                                                                                                                                                                                                 protein-tyrosine-phosphatase (EC 3.1.3.48), probable nonreceptor type 12 splice form - C;Species: Rattus norvegicus (Norway rat) (;Date: 10-Sep-1999 #text_change 09-Jul-2004 C;Date: 10-Sep-1999 #text_change 09-Jul-2004 C;Accession: S48748 (;Accession: S48748 T; Kawanishi, S.; Inoue, T.; Imai, E.; Kaneko, T.; Xia, C.; Takenaka, M.; FEBS Lett. 353, 305-308, 1994
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: UNIPROT:P31652;
C;Superfamily: gamma-aminobutyric ac
C;Keywords: transmembrane protein
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A;Title: Isolation of cDNAs enco
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           C;Date: 06-Jan-1995 #sequence_revision C;Accession: S30604
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C;Keywords: transmembrane protein
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A;Accession: S19585
A;Status: preliminary
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                                                                                             F;58-282/Domain: protein-tyrosine-phosphatase homology <PTP>F;231/Active site: Cys (phosphocysteine intermediate) #status
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                                                                       F;237/Binding site:
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A; Status: preliminary
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        A; Accession: S30604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Reference number: S30604;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Accession: S30604
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Residues: 1-607 <BLA>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Conservative
                                                                         substrate phosphate (Arg) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        expression of a functional serotonin transporter from rat brain.
319585; MUID:92049754; PMID:1944572
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      65.6%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          50.0%;
                                                                                                                                                                                                                                                                                                                                                         S.; Inoue, T.; Imai, E.; Kaneko, T.; Xia, C.; Takenaka, M.; N
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                encoding a novel member of the MUID:92111740; PMID:1765155
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ס
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2; EMBL:X63995; NID:g56779;
acid transporter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Score 40;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-Jan-1995
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DB
55;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               #text_change 09-Jul-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Length 607
                                                                                               #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         neurotransmitter transporter
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                PIDN:CAA45401.1; PID:g56780
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63.9**%**; 62.5**%**;

Score 39; Pred. No.

Length 382;

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A;Cross-references: SGD:S0005829; MIPS:YOR303W
A;Map position: 15R
C;Superfamily: carbamoyl-phosphate synthase (glutamine-hydrolyzing) small chain; carbamo C;Keywords: arginine biosynthesis; heterodimer; ligase; pyrimidine nucleotide biosynthes F;10-367/Domain: carbamoyl-phosphate synthase (glutamine-hydrolyzing) small chain homolog F;186-367/Domain: trpG homology cTRG> F;186-367/Domain: trpG homology cTRG> F;264/Active site: Cys #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      A;Molecule type: DNA
A;Residues: 1-88,'Y', 90-411 <WER>
A;Residues: 1-88,'Y', 90-411 <WER>
A;Cross-references: EMBL:X01764
A;Cross-references: EMBL:X01764
A;Note: the authors translated the codon TAT for residue 89 as His and GGT for residue 7
A;Nyunoya, H.; Lusty, C.J.
J. Biol. Chem. 259, 9790-9798, 1984
A;Title: Sequence of the small subunit of yeast carbamyl phosphate synthetase and identify. Reference number: S05834; MUID:84264639; PMID:6086650
A;Accession: S05834
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            A;Cross-references: UNIPROT:P07258; EMBL:Z75211; NID:g1420668; PIDN:CAA99621.1; PID:g142A;Experimental source: strain S288C
A;Experimental source: strain S288C
R;Werner, M.; Feller, A.; Pierard, A.
Eur. J. Biochem. 146, 371-381, 1985
A;Title: Nucleotide sequence of yeast gene CPA1 encoding the small subunit of arginine-p
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     carbamoyl-phosphate synthase (glutamine-hydrolyzing) (EC 6.3.5.5) small chain - yeast (S N;Alternate names: carbamoyl-phosphate synthetase (glutamine-hydrolyzing) glutamine chaine cyspecies: Saccharomyces cerevisiae
C;Species: Saccharomyces cerevisiae
C;Date: 28-Dec-1987 #sequence revision 02-Aug-1996 #text_change 09-Jul-2004
C;Accession: S67207; A21714; S05898
R;Cziepluch, C.; Jauniaux, J.C.; Kordes, E.; Poirey, R.; Pujol, A.; Tobiasch, E. submitted to the Protein Sequence Database, July 1996
Search completed: May 3, 2005, 06:17:31 Job time : 16.4324 secs
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A;Accession: S67207
A;Molecule type: DNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Reference number: A21714; MUID:85101411; PMID:3881260 A; Accession: A21714
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ;Molecule type: DNA
;Residues: 1-411 <NYUS
;Cross-references: EMBL:K02132; NID:g171304; PIDN:AAA34525.1; PID:g171305
                                                                                                                                                                                                                                                                  Query Match
Best Local Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Gene: SGD:CPA1; MIPS:YOR303w
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Genetics:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Matches
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                                                                                                                   YAYQYSHWT 106
                                                                                                                                                                           6 SMNLADADA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  YOFHYVNW 197
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                                                                                                                                                                                                                                         Conservative
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                                                                                                                                                                                                                                                                  63.9%;
                                                                                                                                                                                                                                      Score 39; DB
Pred. No. 59;
3; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  1;
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                                                                                                                                                                                                                                                                                              Length 411;
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Database :
                                                                               Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries
                                                                                                                                                                Minimum DB seq length: 0
Maximum DB seq length: 200000000
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                                                                                                                                                                                                                        Total number of hits satisfying chosen parameters:
                                                                                                                                                                                                                                                                    Searched:
                                                                                                                                                                                                                                                                                                                             Scoring table:
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                                                                                                                                                                                                                                                                                                                                                                                       Perfect score:
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UniProt_03:*
1: uniprot_sprot:*
2: uniprot_trembl:*
                                                                                                                                                                                                                                                                1612378 seqs, 512079187 residues
                                                                                                                                                                                                                                                                                                                               BLOSUM62
                                                                                                                                                                                                                                                                                                                                                                                       US-10-003-983C-16
                                                                                                                                                                                                                                                                                                                                                                                                                                             May 3, 2005, 05:49:25; Search time 34.5946 Seconds (without alignments)
148.023 Million cell updates/sec
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result

		ж			COMPENSATION	
ŭ	Score	Query Match	Length	DB		ription
1	61	100.0	365	2	Q8МJQ2	Q8mjq2 aotus vocif
N	61	100.0	1290	N	QGEDG0	voci
ω	61	•	1303	N	Q6ED61	aotus
4.	61	100.0	1304	μ	CD45_HUMAN	homo s
ហ	57	93.4	1303	N	Q6ED62	aotus
6	49	80.3	115	بر	PT21_STYPL	
7		78.7	730	N	Q7QCW4	Q7qcw4 anopheles g
8	48	78.7	1226	N	Q9VAL3	drosophila
9	48	78.7	1241	N	Q7KRW3	-
10	48	78.7	1297	N	Q8IMK9	
11	48	78.7	1301	, -	PTP9_DROME	drosoph:
12	4 4	1.27	511	אנ	Q9GHF8	aletrie
14	. α	70.5	115	, ب	PT18 STYPL	P28210 stvela plic
15	43	70.5	115	μ	PT19_STYPL	styela
16	43	•	115	ш	PT22_STYPL	styela
17	43	•	115	۲	PT23_STYPL	styela
18	43	٠	115	Ц	PT24_STYPL	styela pli
19	43	70.5	116	Ь	PT20_STYPL	
20	43	•	427	N	Q48051	
21	43	٠	449	N	Q00754	Q00754 haemophilus
22	43	•	449	N	Q9K2Q4	
23	43	•	449	N	Q9KHF5	
24	43	•	449	N	Q9KHF9	
25	43	•	450	N	Q9KHF3	ω
26	43	70.5	450	2	Q9KHF4	Q9khf4 haemophilus
27	43	•	451	N	Q9KHF6	Q9khf6 haemophilus
28	43	70.5	451	N	Q9KHF7	
29	43	70.5	451	N	Q9KHF8	œ
30	43	70.5	451	N	Q9KHG0	
31	43	70.5	451	N	Q9KHG2	

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Query Match
Best Local Similarity
Matches 10; Conserv

atch 100.0%; Score 61; DB 2; Length 365; sal Similarity 100.0%; Pred. No. 0.086; 10; Conservative 0; Mismatches 0; Indels

0,

Gaps

0,

RESULT 2
Q6ED60

ID Q6ED60

PRELIMINARY;

PRT; 129
AC Q6ED60;

DT 25-OCT-2004 (TrEMBLrel. 28, Created)
DT 25-OCT-2004 (TrEMBLrel. 28, Last sequen;
DT 25-OCT-2004 (TrEMBLrel. 28, Last annotation of the content of the

Last sequence update)
Last annotation update)

PRT; 1290 AA.

CD45.
Actus vociferans (Spix's owl monkey).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae; Actinae; Actus.
NCBI TaxID=57176;
[1]

33 43 70.5 454 2 Q9KHG1 34 43 70.5 455 2 Q9KHH1 34 43 70.5 455 2 Q9KHH2 36 43 70.5 455 2 Q9KHH2 36 43 70.5 455 2 Q9KHH3 37 43 70.5 455 2 Q9KHH3 37 43 70.5 456 2 Q9KHH3 40 43 70.5 456 2 Q9KHG3 41 43 70.5 456 2 Q9KHG3 41 43 70.5 456 2 Q9KHG3 42 43 70.5 456 2 Q9KHG6 43 70.5 456 2 Q9KHG6 44 43 70.5 456 2 Q9KHG6 44 43 70.5 456 2 Q9KHG6 45 43 70.5 456 2 Q9KHG6 46 44 70.5 456 2 Q9KHG6 47 Q8MJQ2 48 43 70.5 456 2 Q9KHG6 49 43 70.5 456 2 Q9KHG6 40 43 70.5 456 2 Q9KHG6 41 43 70.5 456 2 Q9KHG6 42 43 70.5 456 2 Q9KHG6 43 70.5 456 2 Q9KHG6 44 43 70.5 456 2 Q9KHG6 45 43 70.5 456 2 Q9KHG6 46 44 43 70.5 456 2 Q9KHG6 47 Q8MJQ2 48 43 70.5 456 2 Q9KHG6 49 44 43 70.5 456 2 Q9KHG6 40 44 43 70.5 456 2 Q9KHG6 41 43 70.5 456 2 Q9KHG6 42 43 70.5 456 2 Q9KHG6 43 43 70.5 456 2 Q9KHG6 44 43 70.5 456 2 Q9KHG6 45 43 70.5 456 2 Q9KHG6 46 44 43 70.5 456 2 Q9KHG6 47 Q8MJQ2; DR JAMAR-2004 (TEXMELTAL). 22, Created) DT O1-OCT-2002 (TEXMELTAL). 22, Created) DT O1-MAR-2004 (TEXMELTAL). 22, Created) DT O1-MAR-2004 (TEXMELTAL). 22, Created) DT O1-MAR-2004 (TEXMELTAL). 25, Last sequence update) DE CLOT-2002 (TEXMELTAL). 22, Created) DT O1-MAR-2004 (TEXMELTAL). 22, Created) DT O1-MAR-2004 (TEXMELTAL). 22, Created) DT O1-MAR-2004 (TEXMELTAL). 22, Created) CN MARMINIARY; BOLIVERIAL; BOLIVERIA
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Best Local &
Pfam; PF00041; fin3; 2.

Pfam; PF00102; Y_phosphatase; 2.

PFINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00104; PTPC; 2.

SMART; SM00404; PTPC motif; 2.

PROSITE; PS00383; TNR_PHOSPHATASE_1; 2.

PROSITE; PS0035; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y bhosphatase; 2.

Pfam; PF00102; Y bhosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00194; PTPC; motif; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50383; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Q6ED61;
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                                                                     Tissue Antigens 64:165-172(2004).

EMBL; AY445817; AAS06902.1; -.

GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.

GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.

InterPro; IPR003961; FN_III.

InterPro; IPR003957; FN_III-like.

InterPro; IPR003957; PTPC motif.

InterPro; IPR00397; TYR_phosphatase.

InterPro; IPR000387; TYR_PD.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
InterPro; IPR003595; PTPc_motif.
InterPro; IPR000387; TYR_bhosphatase
InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A. PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GO; GO:0004725;
GO; GO:0006470;
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Tissue Antigens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Montoya G.E., Vernot J.P., Pat
"Comparative analysis of CD45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Eukaryota;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human.";
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P:protein amino acid dephosphorylation; IEA.
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Primates;
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s of CD45 protein in p
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28,
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D45 protein in p
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Last sequence update)
Last annotation update)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 61; DB 2;
Pred. No. 0.3;
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Aotinae; Aotu
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Best Local Similarity
Matches 10; Conserv
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CD45 HUMAN STANDARD; PRT; 1304 Am.

P08575; Q16614; Q9H0Y6;

01-AUG-1988 (Rel. 08, Created)

10-CCT-2003 (Rel. 42, Last sequence update)

05-JUL-2004 (Rel. 44, Last annotation update)

05-JUL-2004 (Rel. 44, Last annotation update)
  + + +
                                                                                                                                                                                                                                            MEDLINE=89017162; PubMede-2845400;
Charbonneau H., Tonks N.K., Walsh K.A.,
"The leukocyte common antigen (CD45): a
protein tyrosine phosphatase.";
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Hydrolase.
SEQUENCE
                                                                                                                        EMBO
                                                                                                                                              Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
"Distinct functional roles of the two intracellular phosphatase longains of the receptor-linked protein tyrosine phosphatases LCA
                                                                                                                                                                                                                                                                                                                                                                                                                                       EMBO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Streuli M., Hall L.R., Saga Y., Schlossman S. "Differential usage of three exons generates mRNAs encoding human leukoyte common antigen J. Exp. Med. 166:1548-1566(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens (Human).
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                  antigen).
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Ralph S.J., Thomas M.L., Mortc
"Structural variants of human
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A. (ISOFORM 2), A
MEDLINE=87275816; PubMed=2956090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MEDLINE=88061067;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE=Lymphocytes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. (ISOFORM 1),
                                                                                                                                                                                                                                                                                                                            Hall L.R., Streuli M., Schlossman S
"Complete exon-intron organization
antigen (CD45) gene.";
J. Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                                                                                                                                  MEDLINE=89009812;
                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE
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                                                                                                                                                                                         MEDLINE=90316093; PubMed=1695146;
                                                                                                                                                                                                        MUTAGENESIS
 first one.

CATALYTIC ACTIVITY: Protein tyrosine phosphate tyrosine + phosphate.

SUBUNIT: Binds GANAB and PRKCSH (By similarity)

SUBCELLULAR LOCATION: Type I membrane protein.

ALTERNATIVE PRODUCTS:
                                                                   ";

J. 9:2399-2407(1990).

J. 9:2399-2407(1990).

J. 9:2399-2407(1990).

FUNCTION: Required for T-cell activation through the FUNCTION: Required for T-cell activation through the FUNCTION: The first PTPase domain has enzymatic activateceptor. The first PTPase domain has enzymatic activateceptor.
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                                                                                                                                                                                                                                 in tyrosine phosphatase.";
Natl. Acad. Sci. U.S.A. 85:7182-7186(1988).
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                                                                                                                                                                                                                                                                                                                                                                                                            OF 191-1304 FROM
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ilarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chordata; Craniata; Vertebrata; Eutele Primates; Catarrhini; Hominidae; Homo
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human T200 gly
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Pred. No. 0.3;
0; Mismatches
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n of ti
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                                                                                                                                                                                                                                                                                                                                                        the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Trowbridge I.S.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             antigens.";
                                                                                                                                                                                                                                                          Fischer E
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                                                      phosphate +
                                                                                                                                                                                                                                                                                                                                                        human
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man leukocyte α
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                                                                                                                                                                                                                                                                        E.H.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           least
                                                                                 specificity
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                                                                                             activity,
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                                                        H(2)0
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R GO; GO:0005887; C:integral to plasma membrane; TAS.
R GO; GO:0005001; F:transmembrane receptor protein tyrosine;
R GO; GO:0007166; P:cell surface receptor linked signal trans
R InterPro; IPR003961; FN III.
R InterPro; IPR003987; TNR phosphatase.
InterPro; IPR000897; FN III-like.
R InterPro; IPR000242; Tyr_Pp.
R InterPro; IPR000242; Tyr_Pp.
R Pfam; PF00102; Y phosphatase; 2.
R Pfam; PF00102; Y phosphatase; 2.
R PFINTS; PR00700; PRTYPHOTASE.
R PRINTS; PR00700; PRTYPHOTASE.
R PROSITE; PS00383; FN3; 2.
R PROSITE; PS00383; TYR PHOSPHATASE 1; 2.
R PROSITE; PS00383; TYR PHOSPHATASE 7TP; 2.
R PROSITE; PS0055; TYR_PHOSPHATASE 7TP; 2.
R PROSITE; PS0055; TYR_PHOSPHATASE 7TP; 2.
R PROSITE; PS0055; TYR_PHOSPHATASE 7TP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          EMBL; M23474; AAD1527; EMBL; M23476; AAD1527; EMBL; M23476; AAD1527; EMBL; M23476; AAD1527; EMBL; M23479; AAD1527; EMBL; M23480; AAD1527; EMBL; M23481; AAD1527; EMBL; M23481; AAD1527; EMBL; M23482; AAD1527; EMBL; M23484; AAD1527; EMBL; M23484; AAD1527; EMBL; M23485; AAD1527; EMBL; M23486; AAD1527; EMBL; M23486; AAD1527; EMBL; M23486; AAD1527; EMBL; M23489; AAD1527; EMBL; M23491; AAD1527;
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EMBL;
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MIM; 151460;
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GlycoSuiteDB;
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SIMILARITY: Belongs to the protein-tyrosine phosphal
Receptor class 1/6 subfamily.
SIMILARITY: Contains 2 fibronectin type III domains
SIMILARITY: Contains 2 protein-tyrosine phosphatase
DATABASE: NAME=PROW; NOTE=CD guide CD45 entry;
WWW-"http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Y00638 CAA68669.1,
Y00062; CAA68269.1,
M23496; AADIS273.2;
M23466; AADIS273.2;
M23466; AADIS273.2;
M23468; AADIS273.2;
M23469; AADIS273.2;
M23469; AADIS273.2;
M23470; AADIS273.2;
M23471; AADIS273.2;
M23472; AADIS273.2;
M23473; AADIS273.2;
M23474; AADIS273.2;
M23475; AADIS273.2;
M23477; AADIS273.2;
M23477; AADIS273.2;
M23478; AADIS273.2;
M23479; AADIS273.2;
M23481; AADIS273.2;
M23481; AADIS273.2;
M23484; AADIS273.2;
M23488; AADIS273.2;
M23488; AADIS273.2;
M23488; AADIS273.2;
M23488; AADIS273.2;
M23489; AADIS273.2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SWISS-PROT entry is copyright. It is produced through a collable en the Swiss Institute of Bioinformatics and the EMBL outset Buropean Bioinformatics Institute. There are no restrictions by non-profit institutions as long as its content is in field and this statement is not removed. Usage by and for confield and this statement is not removed. Usage by and for confield and this statement is not removed.
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M: Heavily N- a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    uiteDB; P08575; -.
HGNC:9666; PTPRC.
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nd O-glycosylated.
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Q6ED62;
25-OCT-2004
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CONFLICT
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TRANSMEM
Tissue Antigens 64:165-172(2004).

EMBL; AY445816; AAS06901.1; -.

GO; GO:0004725; F:protein tyrosine phosphatase activity;

GO; GO:0006470; P:protein amino acid dephosphorylation; I

InterPro; IPR003961; FN_III.

InterPro; IPR003957; FN_IIII.

InterPro; IPR003957; TYR_phosphatase.

InterPro; IPR003987; TYR_phosphatase.

InterPro; IPR003242; Tyr_PP.
                                                                                                                                                                                                     Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=57175;
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CARBOHYD
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Montoya G.E., Vernot
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SIGNAL
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of CD45 protein
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                                                                                                                                                                                                                                                                             Last annotation
                                                                                                                                                                                                                                                                                                       Created)
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Pred. No. 0.3
); Mismatches
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Fibronectin type-III 2.
Frotein-tyrosine phosphatase
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Phosphocysteine intermediate.
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Aotinae; Aotu
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Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC; mctif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50085; TYR_PHOSPHATASE_1; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    P28213;
01-DEC-1992
01-DEC-1992
                                                                                                                                              InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
Pfam; PF00102; Y phosphatase; 1.
PROSITE; PS00383; TYR PHOSPHATASE 1; PARTIAL.
PROSITE; PS00385; TYR PHOSPHATASE 2; PARTIAL.
PROSITE; PS50055; TYR PHOSPHATASE PTP; 1.
                                                                                                                                                                                                                                                             use by non-profit institutions as long as its content is modified and this statement is not removed. Usage by and for entities requires a license agreement (See http://www.isb-sib.or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Styela plicata (Sea squirt).
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea;
Stolidobranchia; Styelidae; Styela.
                                                                                                               NON_TER
                                                                                                                                                                                                                                                                                                                This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its
                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
MEDLINE=91139172; PubMed=1704870;
Matthews R.J., Flores E., Thomas M.L.;
"Protein tyrosine phosphatase domains from the protochordate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-DEC-1992 (Rel.
05-JUL-2004 (Rel.
                                                                                                                                                                                                                            EMBL; M38006; AAA29839.1; -. HSSP; P18052; 1YFO.
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                                                                                                                                      Hydrolase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Local Similarity
les 9; Conserv
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                       MNLADADA
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44, Last annotation update)
phosphatase 21 (EC 3.1.3.48)
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                                                                                                   13489 MW;
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                                                             Score 49; DB
Pred. No. 2.3;
                                                                                                   D7B0818ECC8613B5 CRC64;
                                                 Mismatches
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Q9VAL3;
01-MAY-2000
01-OCT-2002
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Q7QCW4;
01-MAR-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Hydrolase.
NON_TER
NON_TER
MEDLINE=20196006; PubMed=10731132; DOI=10.1126/science.287.5461.2185; Adams M.D., Celniker S.E., Holt R.A., Evans C.A., Gocayne J.D., Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F., George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X., Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D., Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Gabor G.L., Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
                                                                                                                                                            Drosophila melanogaster (Fruit fly).
Bukaryota; Metazoa; Arthropoda; Hexapoda; Inse
Neoptera; Endopterygota; Diptera; Brachycera;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PROSITE; PS00383; TYR_PHOSPHATASE_1; 1.
PROSITE; PS50056; TYR_PHOSPHATASE_2; 1.
PROSITE; PS50055; TYR_PHOSPHATASE_PTF;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phosphatase activity; IEA.
GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.
InterPro; IPR000387; TYR_phosphatase.
InterPro; IPR000242; Tyr_Pp.
Pfam; PF00102; Y phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
PRINTS; PR00700; PRTYPHPHTASE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Anopheles Genome Sequencing Consortium;
Submitted (MAR-2002) to the EMBL/GenBank/DDBJ databases
-!- CAUTION: The sequence shown here is derived from an
EMBL/GenBank/DDBJ whole genome shotgun (WGS) entry
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Name-gyusary, ...
Anopheles gambiae str. PEST.
Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Eukaryota; Metazoa; Arthropoda; Nematocera; Culicoidea; Ano
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01-MAR-2004 (TrEMBLrel.
01-MAR-2004 (TrEMBLrel.
                                                                                                                                                                                                                       Name=Ptp99A; ORFNames=CG2005;
                                                                                                                                                                                                                                      CG2005-PA.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Name=agCG51869; ORFNames=ENSANGG00000013695;
                                                                                                                      SEQUENCE FROM N.A.
                                                                                                                                             NCBI_TaxID=7227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE
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7; Conserv
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87.5%;
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RA Dodson K., Doug L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., RA Durbin K., J. Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W., RA Fosler C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K., RA Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M., Harris M., Harris M.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J., RA Hostin D., Houston K.A., Howland T.J., Wei M.H., Ibeymam C., RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z., RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D., Lai X., Wattei B., McIntosh T.C., McLeod M.P., McPherson D.L., RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.L., RA McHkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A., RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M., Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Resse M.G., RA Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H., RA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T., RA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E., Syirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X., RA Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissenbach J., RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L., Ye J., RA Yeh R.F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L., Theng S.H., Zhong F.N., Zhong W., Zhou S., Zhu S., Zhu S., Smith H.O., RH. Science 287:1185-2195(2000).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=22426069; PubMed=12537572;
Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfied E.J., Bayraktaroglu L., Berman B.P.
Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.O.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
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Kaminker J.S., Bergman C.M., Kronmiller
Patel S., Frise E., Wheeler D.A., Lewis
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Genome Biol. 3:RESEARCH0084-RESEARCH0084 (2002)
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R FlyBase; FBgn0004369; Ptp99A.

R GO; GO:0007415; P:defasciculation of motor neuron; IGI
R GO; GO:0008045; P:motor axon guidance; IGI.

R InterPro; IPR003961; FN III.

DR InterPro; IPR001005; Myb Dum binding.

DR InterPro; IPR001005; Myb Dum binding.

DR InterPro; IPR001045; TYR_phosphatase.

InterPro; IPR000387; TYR_phosphatase.

InterPro; IPR000242; Tyr_PP.
RA Adams D.D. (Celniker S.E., Holt R.A., Evans C.A., Godayne J.D., RA Amanatides P.G., Scherer S.E., Li P.W., Hoskins R.A., Galle R.F., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N., RA George R.A., Lewis R.A., Rahmana Q., Champe M., Pfeiffer B.D., RA George R.G., Rogers Y.H., Blazej R.G., Champe M., Pfeiffer B.D., RA George R.G., Royley R.G., Helt G., Nelson C.R., Gabor G.L., Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D., RA Harlis K.C., Busam D.A., Berman B.F., Bhandari D., Bolshakov S., Beeson K.Y., Benos P.V., Berman B.F., Bhandari D., Bolshakov S., Beeson K.Y., Benos P.V., Berman B.F., Brandari D., Bolshakov S., RA Borkova D., Botchan M.R., Bouck J., Brokstein P., Brottler P., Cadieu E., Center A., Chandra I., Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P., RA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P., Dorbin K.J., Evangelista C.C., Ferraz C., Ferriera S., Fleischmann W., Roles R., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M., Glasser K., Glodek A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M., Alako P., Levitsky A.A., Li J.J., Wei M.H., Ibegwam C., Alali M., Kalush F., Karpen G.H., Ke Z., Kenmison J.A., Ketchum K.A., Alako P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X., Alako P., Levitsky A.A., Li J., Li Z., Liang Y., Lin X., Alako P., Mallen B., McIntosh T.C., McLeod M.P., McPherson D., Mallen R., McPherson D., McPherson D.,
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Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y_phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

PROSITE; PS50085; TYR_PHOSPHATASE_1; 1.

PROSITE; PS00038; TYR_PHOSPHATASE_2; 1.

PROSITE; PS50056; TYR_PHOSPHATASE_PTP; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_PTP; 2.

SEQUENCE 1226 AA; 136936 MW; C304AD7C;
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MA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
A Nelson D.R., Nelson K.A., Nixon K., Nussbern D.R., Pacleb J.M.,
A Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
A Reinert K., Remington K., Saunders R.D., Scheeler F., Shen H.,
A Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
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A Syirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
A Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
A Wang Z.Y., Wassarman D.A., Weinstock G.M., Weissenbach J.,
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                                                                                                                                                                                                GO; GO:0016787; F:hydrolase activity; IEA.
GO; GO:0004725; F:protein tyrosine phosphatase ac
GO; GO:0006470; P:protein amino acid dephosphoryl.
InterPro; IPR003961; FN III.
InterPro; IPR003957; FN III-like.
InterPro; IPR001005; Myb DNA binding.
InterPro; IPR0010595; PTPC motif.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; Tyr PP.
Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y phosphatase; 2
Pfam; PF00102; Y phosphatase; 2
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00404; PTPC_motif; 2.
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SEQUENCE FROM N.A.
MEDLINE=22426070; PubMed=12537573;
MEDLINE=7426070; PubMed=12537573;
MEDLINE=22426070; PubMed=12537573;
MEDLINE=22426070; PubMed=12537573;
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Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfied B.J., Bayraktaroglu L., Berman B.P.,
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Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.O.,
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Genome Biol. 3:RESEARCH0084-RESEARCH0084 (2002).
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HSSP; P18031; 1KAV.
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., Rubin G.M.
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              RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
RA Brandon R.C., Rogers Y.H., Blazej R.G., Champe M., Pfeiffor B.D.,
RA Wan K.H., Doyle C., Baxter E.G., Helt G., Walson C.R., Gabor G.L.,
RA Abril J.F., Agbayani A., An H.J., Andrews-Pfannkoch C., Baldwin D.,
RA Ballew R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
RA Berson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
RA Borkova D., Botchan M.R., Bouck J., Broketein P., Bottier P.,
RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
RA Dodson K., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
Posler C., Gabriellan A.E., Garg N.S., Gelbart W.M., Glasser K.,
RA Glodek A., Gong F., Gorrell J.H., Gelbart W.M., Glasser K.,
RA Harris N.L., Harvey D., Helman T.J., Hernandez J.R., Houck J.,
RA Harris N.L., Harvey D., Helman T.J., Wei M.H., Ibegwam C.,
RA Harris N.L., Marvey D., Helman T.J., Wei M.H., Ibegwam C.,
RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
RA Merkulov G., Milshina N.V., Mobarry C., Morris J., Moshrefi A.,
Mount S.M., Moy M., Murphy B., Murphy L., Mornis J.D., Lai Z.,
RA Melson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Melson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
RA Spier E., Spradling A.C., Stapleton M., Skupsh M.P., Smith T.,
RA Svirskas R., Tector C., Stapleton M., Skupsh M.P., Smith T.,
RA Svirskas R., Tector C., Stapleton M., Skupsh M.P., Smith T.,
RA Syler E., Spradling A.C., Stapleton M., Skupsh M.P., Smith T.,
RA Syler E., Spradling A.C., Stapleton M., Skupsh M.P., Smith T.,
RA Syler E., Spradling A.C., Stapleton M., Skupsh M.P., Smith T.,
RA Syler E., Spradling A.C., Stapleton M., Skupsh M.P., Smith T.,
RA Syler E., Spradling A.C., Stapleton M., Skupsh M.P., Smith T.,
RA Shelp S. M., Short S., Short M., Short S., Short H
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Bukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Science [2]
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; TYR PHOSPHATASE 1; 1.
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; TYR PHOSPHATASE PTP; 2
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Pred. No. 34;
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SMART; S
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Misra S., Crosby M.A., Mungall C.J., Matthews B.B., Campbell K.S.,
Hradecky P., Huang Y., Kaminker J.S., Millburn G.H., Prochnik S.E.,
Smith C.D., Tupy J.L., Whitfied E.J., Bayraktaroglu L., Berman B.P.,
Bettencourt B.R., Celniker S.E., de Grey A.D., Drysdale R.A.,
Harris N.L., Richter J., Russo S., Schroeder A.J., Shu S.Q.,
Stapleton M., Yamada C., Ashburner M., Gelbart W.M., Rubin G.M.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Celniker S.E., Wheeler D.A., Kronmiller B., Carlson J.W., Halper Patel S., Adams M., Champe M., Dugan S.P., Friee E., Hodgson A., George R.A., Hoskins R.A., Laverty T., Muzny D.M., Nelson C.R., Pacleb J.M., Park S., Pfeiffer B.D., Richards S., Sodergren E.J. Svirskas R., Tabor P.E., Wan K., Stapleton M., Sutton G.G., Vent Weinstock G., Scherer S.E., Myers E.W., Gibbs R.A., Rubin G.M., "Finishing a whole-genome shotgun: Release 3 of the Drosophila melanogaster euchromatic genome sequence.", Genome Biol. 3:RESEARCH0079-RESEARCH0079 (2002).
                                                                                                                       PROSITE; PS50853; FN3; 2.

PROSITE; PS00037; MYB 1; UNKNOWN 1.

PROSITE; PS000383; TYR PHOSPHATASE 1; 1.

PROSITE; PS50056; TYR PHOSPHATASE 2; 1.

PROSITE; PS50055; TYR PHOSPHATASE PTP; 2.

Hydrolase.
                                                                                                                                                                                                                                                                                        GO; GO:0007415; P:defasciculation of mc GO; GO:0008045; P:motor axon guidance; InterPro; IPR003961; FN III-like. InterPro; IPR001005; Myb_DNA binding. InterPro; IPR000387; TYR_phosphatase.
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[5]
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Kaminker J.S., Bergman C.M., Kronmiller B., Carlson
Patel S., Frise E., Wheeler D.A., Lewis S.E., Rubin
                                                                                                              SEQUENCE
                                                                                                                                                                                                                                                                                 InterPro;
                                                                                                                                                                                                                                                                                                                                                                                FlyBase;
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HSSP; P18052; 1YFO.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FlyBase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               "Annotation of the Drosophila melanogaster euchromatic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            SEQUENCE FROM N.A.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Lewis S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   "The transposable elements of the Drosophila melanogaster euchromatin:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       genomics perspective."
641
                                                                                                                                                                                                                                               Pro; IPR000242; Tyr_PP.
PF00041; fn3; 2.
PF00102; Y_phosphatase;
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; SM00060; FN3; 2;
; SM00194; PTPC; ;
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                                                    Similarity 7; Conserv
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YQYHYTNW 648
                          MULIOADA
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                                                      Conservative
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                                                                  Score 48; DB
Pred. No. 36;
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                                                      Mismatches
                                                                                                           68020754CA0A5602 CRC64;
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RESULT 11
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_P35832;
                            PIR;
                                    EMBL; M81795; AAA28483.1; -.
EMBL; M80539; AAA28485.1; -.
EMBL; M80464; AAA28486.1; -.
                                                                                             This SWISS-PROT entry is copyright. It is produced through between the Swiss Institute of Bioinformatics and the Ew the European Bioinformatics Institute. There are no restrues by non-profit institutions as long as its content modified and this statement is not removed. Usage by and entities requires a license agreement (See http://www.isb-sor send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Three receptor-linked protein-tyrosine expressed on central nervous system axor Cell 67:675-685(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygo
Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
Ephydroidea; Drosophilidae; Drosophila.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MEDLINE=92034988; PubMed=1657401; DOI=10.1016/0092. Yang X., Seow K.T., Bahri S.M., Oon S.H., Chia W.; "Two Drosophila receptor-like tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              01-JUN-1994 (Rel. 29, Created)
01-JUN-1994 (Rel. 29, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
Protein-tyrosine phosphatase 99A precursor (EC
                                                                                                                                                                                                                                                                                                                                                                                                                                        Cell 67:661-673(1991).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      TISSUE=Eye imaginal disk;
MEDLINE=92107930; PubMed=1662390;
                                                                                                                                                                                                                                                                                  - i - TISSUE SPECIFICITY:
                                                                                                                                                                                                                                                                                                                                                                                                             -!- CATALYTIC ACTIVITY: Protein tyrosine phosphate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              TISSUE=Embryo;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tian S.-S., Tsoultas
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Procophila melanogaster.";
Proc. Natl. Acad. Sci. U.S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              phosphatase gene expressed on central nervous
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              issp;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         lariharan I.K., Chuang P.-T.,
Cloning and characterization
                                                                                                                                                                                                       Receptor class subfamily.
SIMILARITY: Contains 3 fibronectin type
SIMILARITY: Contains 2 protein-tyrosine
                                                                                                                                                                                                                                                                                                                                                                    tyrosine + phosphate.
SUBCELLULAR LOCATION: Type I membrane protein
ALTERNATIVE PRODUCTS:
                                                                                                                                                                                                                                                     pioneer neurons in the embryo.
SIMILARITY: Belongs to the protein-tyrosine
                                                                                                                                                                                                                                                                                                                Name=Short;
                                                                                                                                                                                                                                                                                                                                           Name=Long;
                                                                                                                                                                                                                                                                                                                                                      Event=Alternative
           A41622; A41622.
; P18052; 1YFO.
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                                                                                                                                                                                                                                                                                                                         IsoId=P35832-1; Sequence=Displayed;
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                                                                                                                                                                                                                                                                               Sequence=VSP_005142;
Y: Selectively expressed
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                                                                                                                                                                                                                          fibronectin type III domains
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SHORT)
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of a receptor-class phosphotyrosine
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DOI=10.1016/0092-8674(91)90062-4;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           DOI=10.1016/0092-8674(91)90063-5;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SPLICING.
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                                                                                                                                                                                                           phosphatase domains.
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Pfam; PF00041; fn3; 2.7—
Pfam; PF00102; Y_phosphatase; 2.
Pfam; PF00102; Y_phosphatase; 2.
PRINTS; PR00700; PRTYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 2.
SMART; SM00194; PTPC; 2.
PROSITE; PS500853; TYR_PHOSPHATASE_1; 1.
PROSITE; PS00383; TYR_PHOSPHATASE_2; 1.
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
Alternative splicing; Hydrolase; Protein ph
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SIGNAL 1
CHAIN 30
DOMAIN 395
DOMAIN 416
DOMAIN 64
DOMAIN 64
DOMAIN 169
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Q9GHF8;
01-MAR-2001
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CONFLICT
SEQUENCE
Puse S., Tamura M.N.;
"A phylogenetic analysis of th
Melanthiaceae sensu lato.";
Plant Biol. 2:415-427(2000).
EMBL; AB040165; BAB16773.1; -.
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01-MAR-2004
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DOMAIN
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Aletris glabra.
                                                                                                                                                                            Chloroplast.
Eukaryota; Viridiplantae;
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InterPro; IPR008957; FN_III-11ke.
InterPro; IPR000387; TYR_phosphatase.
InterPro, IPR000242; Tyr_PP.
                                                                                         SEQUENCE FROM N.A.
                                                                                                                      NCBI_TaxID=119988;
                                                                                                                                                          Spermatophyta; Magnoliophyta;
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GO:0008045;
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1301
394
415
1301
168
268
368
368
747
975
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1205
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176
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87.5%;
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16,
26,
                                                                                                                                                     Streptophyta; Embryophyta; Tracheophyta;
yta; Liliopsida; Dioscoreales; Nartheciaceae;
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Last sequence Last anno
                                                      the
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P -> R (in Ref. 2)
N -> H (in Ref. 3)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                <u>,</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Score 48; DB Pred. No. 36; 0; Mismatches
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N-linked
N-linked
N-linked
N-linked
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N-linked
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Protein-tyrosine phosphatase
Protein-tyrosine phosphatase
Phosphocysteine intermediate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cytoplasmic (Potential).
Fibronectin type-III 1.
Fibronectin type-III 2.
Fibronectin type-III 3.
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                                                    plastid
                                                                                                                                                                                                                                                                sequence update)
annotation updat
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                                                                                                                                                                                                                                                                                                                                       511
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . 36;
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Ref. 3)
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                                                      with
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RESULT 14
PT18_STYPP
ID PT18
AC P282
DT 01-DD
DT 01-DD
DT 05-JD
DT P5-JD
DT Namme
OS Styel
OX NCBI
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Q9GHF9
ID Q9
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Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                Query Match
Best Local S
Matches 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  SEQUENCE FROM N.A.

Fuse S., Tamura M.N.;

Fuse S., Tamura M.N.;

A phylogenetic analysis of the plastid Melanthiaceae sensu lato.";

Melant Biol. 2:415-427(2000).

EMBL; AB040164; BAB16772.1; -.

GO; GO:0005507; C:chhoroplast; IEA.

GO; GO:0008380; P:RNA splicing; IEA.

InterPro; IPR00898; Agglutinin.

InterPro; IPR000442; Intron maturse2.

InterPro; IPR000442; Intron maturse2.

Pfam; PF01024; MatK_N; 1.

Pfam; PF01024; MatK_N; 1.

Chloroplast.

SEQUENCE 511 AA; 60992 MW; 9EC8A6FE
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               GO; GO:0009507; C:chloroplast; IEA.
GO; GO:0009507; C:chloroplast; IEA.
GO; GO:0008380; P:RNA splicing; IEA.
InterPro; IPR008998; Agglutinin.
InterPro; IPR00442; Intron maturse2.
InterPro; IPR002866; MatK.N.
Pfam; PF01348; Intron maturas2; 1.
Pfam; PF01348; MatK.N; 1.
Chloroplast.
SEQUENCE 511 AA; 60846 MW; 8582DFB4
                                                                      PTI8 STYPL STANKELLER
PTI8 STYPL STANKELLER
PTI8 STYPL STANKELLER
P18 STYPL STANKELLER
P18 STYPL STANKELLER
P18 STYPL
P18 STYP
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Q9GHF9;
01-MAR-2001
01-MAR-2001
01-MAR-2004
                                                                                                                                                                                                                                     STYPL
TAYTS
Protein-tyrosine phosphatase 18 (EC 3.1.3.4 Name=STY 18;
Styela plicata (Sea squirt).
Eukaryota; Metazoa; Chordata; Urochordata;
Stolidobranchia; Styelidae; Styela.
NCBI_TaxID=7726;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Aletris glabra.
Chloroplast.
Eukaryota, Viridiplantae, Streptophyta, Embryophyta, Tracheophyta;
Spermatophyta, Magnoliophyta, Liliopsida, Dioscoreales, Nartheciaceae,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     NCBI_TaxID=119988;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Maturase
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity 55. 5; Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                  Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PRELIMINARY;
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Last
                                                                                                                                                                                                                                                                                                                                                                                                                                                Score 44; DB Pred. No. 62; 4; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Created)
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           9EC8A6FE80357544 CRC64;
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annotation update)
                                                                                                                      update)
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62;
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                                                  Ascidiacea;
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                                                                                                                   (Fragment).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Length 511;
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Best Local S
Matches 6
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               P282II;
01-DEC-1992 (Rel. 24, Created)
01-DEC-1992 (Rel. 24, Last sequence update)
05-JUL-2004 (Rel. 44, Last annotation update)
05-JUL-2004 (Rel. 44, Last annotation update)
                                                                               This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
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PROSITE; PS00383; TYR PHOSPHATASE 1; PARTIAL.

PROSITE; PS50056; TYR_PHOSPHATASE_2; PARTIAL.

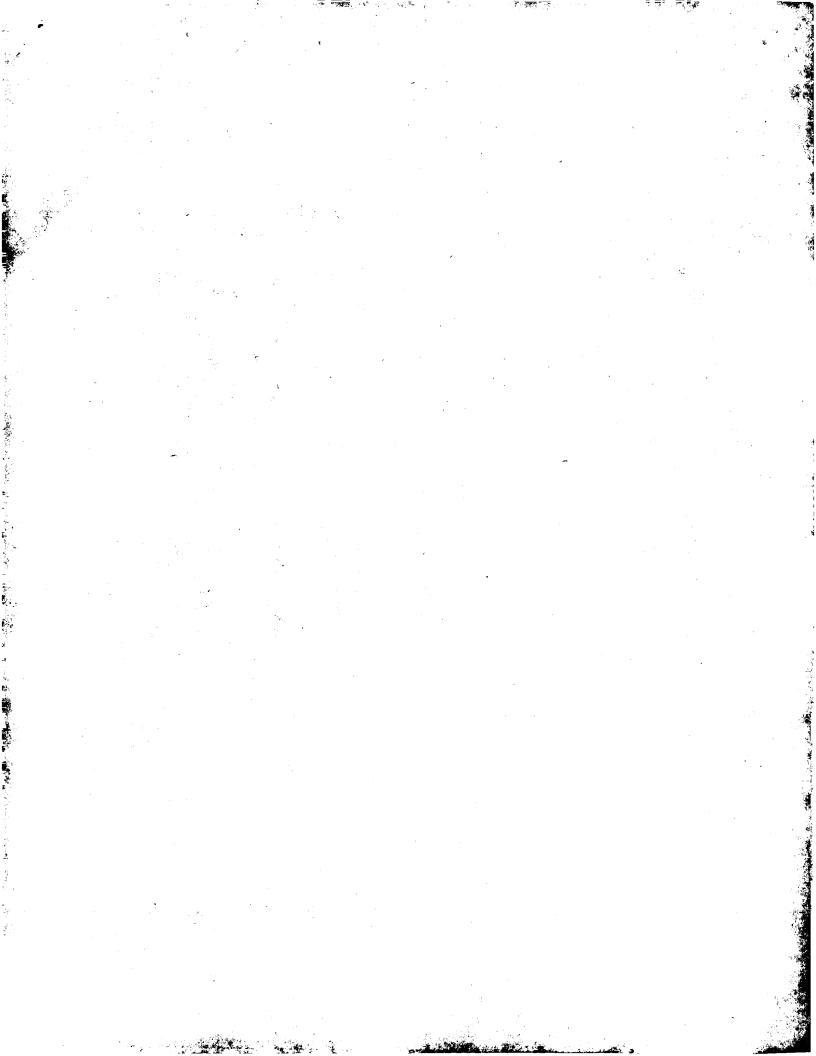
PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 1.

Hydrolse; Protein phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See http://www.isb-sib.ch/announce/or send an email to license@isb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
MEDLINE=91139172; PubMed=1704870;
Matthews R.J., Flores E., Thomas M.L.;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Styela plicata (Sea squirt).
Eukaryota; Metazoa; Chordata; Urochordata; Ascidiacea;
Stolidobranchia; Styelidae; Styela.
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SEQUENCE FROM N.A.
MEDLINE=91139172; PubMed=1704870;
Matthews R.J., Flores E., Thomas
                                                                                                                                                                                                                                                                                                                                       Immunogenetics 33:33-41(1991).
-!- CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)O =
                                                                                                                                                                                                                                                                                                                                                                                                       plicata."
                                                                                                                                                                                                                                                                                                                                                                                                                                     "Protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       NCBI_TaxID=7726;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Name=STY
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InterPro; IPR000242; Tyr_PP.
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-!- CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)0 = protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
les 6; Conserv
                                                                                                                                                                                                                                                                                                               tyrosine + phosphate.
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        M38004;
P18031;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      74
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     AAA29837.1;
1C88.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 43; DB Pred. No. 21; 1; Mismatches
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InterPro; IPR000242; Tyr PP.
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PROSITE; PS00383; TYR PHOSPHATASE 2; PARTIAL.
PROSITE; PS50055; TYR PHOSPHATASE PTP; 1.
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74 FOYOYINW
                      1 YQYQYTNW
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115 AA;
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Search completed: May 3, Job time: 45.5946 secs

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83.505 Million cell updates/sec
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

45	44	43	42	41	40	39	38	37	36	35 5	34	33	32	31	30	29	28	27	26
41	41	41	41	41	42	42	43	43	43	43	43	43	44	48	48	48	61	61	61
67.2	67.2	67.2	67.2	67.2	68.9	68.9	70.5	70.5	70.5	70.5	70.5	70.5	72.1	78.7	78.7	78.7	100.0	100.0	100.0
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Abr61842	Abb64881	Aay28884	Aag78284	Aab59386	Abu39250	Ado57594	Adm92180	Abp81411	Abu01782	Abu30230	Abo73646	Aar40060	Ada34437	Abb58751	Aag78267	Aab59369	Adq39375	Adq39380	Ab084455
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ALIGNMENTS

RESULT 1 ABG31986

Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; C antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen, allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic; because the colony forming unit-granulocyte macrophage; immunotherapeutic; 06-JUN-2002. WO200244207-A1 haematopoietic; Human CD45 HLA-binding peptide, huCD45/1116. 05-NOV-2002 ABG31986; ABG31986 standard; peptide; 10 Homo sapiens. (first entry) malignant. A

30-NOV-2000; 2000WO-GB004566

30-NOV-2000; 2000WO-GB004566.

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

Stauss HJ, Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytocoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
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26-FEB-1991;
10-FEB-1993;
                                                                                                                                                                                                                            Identifying a compound that modulates the phosphotyrosine phosphatase activity of a polypeptide by incubating the compound with the polypeptide, which is in pure form, in a membrane preparation or in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human leukocyte
                                                                                                                               Example; SEQ ID NO 10; 52pp; English
                                                                                                                                                                                                                                                                                                                                                                     WPI; 2004-118574/12.
                                                                                                                                                                                                                                                                                                                                                                                                                                Schlessinger J,
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91US-00654188.
93US-00015985.
95US-00448288.
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The invention relates to receptor-type protein tyrosine phosphatase (RPTP) and its corresponding nucleic acid. The invention also relates

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RPTP) and its corresponding nucleic acid. The invention method for identifying a compound that modulates the

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CC phosphatase designated as PTPH1 appearing as ADD22982. Also included is a cretroviral vector comprising the RNA. The RNA is useful for treating or preventing a condition in which abnormally high levels of phosphotyrosine occur in a mammalian cell (which involves introducing into the mammalian cell and agent which comprises DNA or RNA encoding all or a portion of a PTPH1, under conditions sufficient to express PTPH1 where the polypeptide can catalyse dephosphorylation of tyrosyl residues that are phosphorylated through action of a protein tyrosine kinase. The RNA is also useful for reversing a malignant phenotype of a mammalian cell which is associated with tyrosyl phosphorylation catalysed by a protein tyrosine kinase. The RNA is delivered via a recombinant retrovirus or a recombinant vaccinia virus. At least one tyrosyl residue that is dephosphorylated by the protein tyrosine phosphatase polypeptide can be
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04-DEC-1996;
22-JAN-1999;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                   Disclosure; Fig 4B; 12pp;
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01-MAR-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; enzyme; protein tyrosine phosphatase; PTPH1; cytostatic; gene therapy; retroviral vector; phosphotyrosine; pp60(V-src); breast cancer; leukaemia; CD45-D2.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          New isolated RNA encoding PTPH1 useful for treating
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human protein tyrosine phosphatase, CD45-D2
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91US-00663579.
93US-00107420.
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99US-00235251.
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14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
mentioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 polynucleotide sequences as mentioned in the specification, or its complement) an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer or for detecting the presence or absence of cancer cells in an
                                                                                                                                               The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer-associated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above-
                                                                                                                                                                                                                                                                                                                                New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        aberrantly phosphorylated by pp60(V-src). The RNA is useful for treating or preventing malignancies such as breast cancer and leukaemia. The
                                                                                                                                                                                                                                                                                                                                                                                                     N-PSDB;
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nce is a PTP similar to
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Matches 10
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                                                                                                                                                                                                                                                                         Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-045313P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
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N-PSDB; ADQ38549.
                                                                                                                                                                                                                              Claim
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The invention relates to a novel method for identifying an individual wh has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least

individual who

of.

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CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antigen-binding CC that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the CC specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid, comprising the CC polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the CC method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detection method has cardiant activity. CT me nucleic acids of the invention may be used in gene therapy. The CC decreased risk for developing myocardial infarction and for preparing a CC composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
            New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ABU05246
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                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human expressed protein tag (EPT) #1912.
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                                                                                                                  Tomlinson
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Pred. No. 0.49;
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Best Local Similarity

Matches 10; Conser
                                                                                                                                                                                       28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypurelectides are particularly useful for treating or preventing melan melan and contractions.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          Translational profiling; expressed protein tag; EPT; kinase; protease; protease inhibitor; transporter; cytoskeletal prote receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gast adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
            New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1114 AA;
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                                                                                                                                                                                                                                                                                                                  28-MAR-2002; 2002WO-US009671.
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                                                                                                                                                          (ZYCO-)
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                                                                                                                       Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%; Score 61; DB 6 ilarity 100.0%; Pred. No. 0.58; Conservative 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                        INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 phosphatase;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cancer;
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Example

2;

SEQ ID NO 1905; 134pp; English.

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RESULT 8
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    adenocarcinoma;
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Pred. No. 0.58;
Mismatches
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RESULT 9
ABU05245
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                     Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens
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treating leukemia.

e.g.

colon

gastric

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New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for

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ctransporter, cytoskeletal protein, receptor or transcription factor. The
polypeptide is useful as an immunogenic composition for eliciting in a
cmammal an immunogenic response directed against any of the purified
polypeptide. The purified polypeptide, or the antibody that binds to this
polypeptide. Is useful for trapping cancer. The polypeptide is also
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myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma,
lymphoma or leukaemia. These are also useful for screening agents for
treating the above mentioned diseases. This sequence represents an
expressed protein tag (EPT) isolated from human tissue for translational
profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local S
Matches 10
                                    screening for specificancer or autoimmune
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human protein tyrosine phosphatase #27
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example
                                                                                                                                                                                                                                    13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                              WO2003068984-A2
                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADL16232
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ADL16232 standard; protein; 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           The invention describes a purified polypeptide, which comprises
                                                       Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g.
                                                                                                                                                      Tonks NK,
                                                                                                                                                                                                                                                                                13-FEB-2003; 2003WO-EP001446.
                                                                                                                                                                                                                                                                                                                                                                                                            cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                        protein tyrosine phosphatase; reversible oxidation; dephosphorylation;
inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                       (COLD-) COLD SPRING (CEPT-) CEPTYR INC.
                                                                                                                         2003-712572/67
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                                                                                                          ADL16231.
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                                                                                                                                                     Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                            abnormality;
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Pred. No.
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Disclosure;

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RESULT 11
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Best Local
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The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue
                                                                                                                                                                                                                                    Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Sequence 1143
                                                                                                                                                                                                                                                                                                                                                        Aziz N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human soft tissue sarcoma-upregulated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-AUG-2004
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ilarity 100.0%;
Conservative (
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                                                                                                                                                                                                                                                                                                                                                        Zlotnik A;
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RESULT 12
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AC ALM
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Best Local
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21-JAN-2000;
25-APR-2000;
20-JUN-2000;
                 encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
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03-AUG-2000;
                                                                                                                                                                       Example
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19-OCT-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                (HYSE-) HYSEQ
                                                                                                                                                                                                                  central
                                                                                                                           invention relates to human nucleic acids (AAI57798-AAI61369)
                                                                                                                                                                                                                                                                              2001-442253/47
DB; AAI60204.
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Wang Z,
Goodrich
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2000US-00552317.
2000US-00598042.
2000US-00620312.
2000US-00633450.
2000US-00653191.
2000US-00693036.
2000US-00693036.
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Wehrman T,
1 R, Drmanac
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Pred. No.
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Yang Y,
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RESULT 13
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Best Loc
Matches
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08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and
                                                                                                                                                                                 New polypeptides (e.g. kinases, phosphatases, proteases, tracytoskeletal proteins, receptors or transcription factors), treating cancer, e.g. colon cancer, gastric cancer, sarcoma.
                                                                                                                                                                                                                                            WPI;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       protease; protease inhibitor; transporter; cytos) receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form
                                                                                                                                                                                                                                                                        Chicz
                                                                                                                                                                                                                                                                                                                                                                                                   28-MAR-2001; 2001US-0279495P
                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Translational profiling;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human expressed
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABU05242;
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                                                                                                                                            Example
                                                                                                                                                                                                                                                                                                                                                                                                                               28-MAR-2002; 2002WO-US009671.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABU05242
                                                                                                                                                                        leukemia.
                                                                                                                                                                                                                                                                                                    (ZYCO-)
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                                                                                                                                                                                                                                                                                                    ZYCOS
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      VOYOYTNWSV
                                                                                                                                            SEQ ID
                                                                                                                                                                                                                                                                      Tomlinson
                                                                                                                                                                                                                                                                                                                           ; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                    INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                            NO 1908; 134pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      970
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     expressed protein tag; EPT; kinase; phoitor; transporter; cytoskeletal protein;
                                                                                                                                                                                                                                                                        Urban
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (EPT) #1908.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Score 61;
Pred. No.
                                                                                                                                                                                                                                                                        RG
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Mismatches
                                                                                                                                            English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indels
                                                                                                                                                                                       sarcoma,
                                                                                                                                                                                                    transporters, s). useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   phosphatase,
                                                                                                                                                                                       Lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cancer;
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RESULT 14
ADR39747
ID ADR39
XX ADR39
XX ADR39
XX DAR39
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                     Ramkumar J, Marquis JP, Swarnal
Becha SD, Lee SY, Hafalia AJA,
Jackson AA, Yang J, Gorvad AE;
                                                                                                                                                                                                                       New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy; developmental disorder; Hypothyroidism; Cushing's syndrome; infection;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human; kinase and phosphatase protein; KPP; enzyme; cytostatic; antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective, anti-HIV; antiallergic; anti-HIAmmarory; thyromimetic; gene therapy; cell proliferative disorder; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human kinase and phosphatase KPP-20 protein SEQ ID NO:20.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1149 AA;
                 (KPP), designated KPP-2U. The numer of the properties, anticonvulsant invention have cytostatic, antiarteriosclerotic, anti-HIV, anti-Alia
                                                                                  The present sequence represents the human kinase and phosphatase (KPP), designated KPP-20. The human KPP sequences from the presen
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                                                                                                                                                                                                                                                                                                                                                                                                         n SD,
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DB; ADR39793.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   970
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                                                                                                                                                                     299pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Swarnakar A, Chawl
la AJA, Richardson
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Chawla NK,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     TW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             <u>,</u>
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        Khare R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Tran
                             antiallergic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gx;
                                                                                  present
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                                                                                                             protein
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and

can be used in

gene

The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide

Claim 10; SEQ ID NO 1041; 145pp; English.

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RESULT 15
ADQ39378
ID ADQ39
XX ADQ39
XX ADQ39
XX IB-NO
DT 18-NO
DT 18-NO
DX Human
XX Myoca
KW cardi
XX WO200
XX Homo
XX Homo
XX IB-JU
XX 22-DE
XX 22-DE
XX 22-DE
XX 10-AB
PR 10-AB
PR 30-AB
PR 30-AB
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XX WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell
                                                                                                                                                                                                                                                                                                                                                                                       Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   N-PSDB; ADQ38550.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 cardiant; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Myocardial infarction;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human myocardial infarction-associated gene derived protein,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   18-NOV-2004 (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WPI; 2004-533949/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (APPL-)
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Pred. No. 0.62;
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RESULT 16
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Best Local (
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This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for an obseity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and
                                                                                                  Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissumice of different genotypes.
                                                                                                                                                                                                                                                                                 29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
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                                                                                                                                                                                                                                                                                                                                                                                                                    Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                              adipogenesis;
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                                                                                                                                                                                                                                                       (HMGE-)
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DB; ADM66908.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           adipocyte specific; adipose tissue; anti-obesity;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               standard; protein; 1256
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hypertension; cardiovascular
hypotensive; PTPase receptor
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                           obesity; leptin; ob;
ar disease; anorectic;
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Best Local S
Matches 10
The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individ comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, islet, lung, because of the method is also useful in assessing the immune status an individual. The methods are also useful in diagnosing and monitori
                                                                                                                                                                                                                                                                                                                         Diagnosing or monitoring transplant rejection, epancreas, pancreatic islet, lung, bone marrow or rejection, in an individual, comprises detecting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, HMGI-C-/-, ob/ob, or HMGI-C-/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were instifted that the account confiference of the confidence of the confiden
                                                                                                                                                                                                                                                   Claim 65; SEQ ID NO 2975; 1762pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2004-400724/37.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Wohlgemuth J,
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ry bowel disease; m
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2002US-00325899.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                e system; rheumatoid multiple sclerosis;
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                      .g. heart, kidney, liver, stem cell transplant
                                                                                                                                                                                                                                                                                                                               the expression level of
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RESULT 18
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The invention relates to a novel method for identifying an individual who characteristic and a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleotide acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least a contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypoptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypoptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP an anucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an NP in a nucleic acid molecule; a method of detecting an NP in a nucleic acid molecule; a method of detecting an NP in a nucleic acid molecule; a method of detecting an antibody is not nucleic acid molecule; and method of detecting and necessariant polypoptide; and a nucleic acid molecule; and method of detecting and necessariant polypoptide; and an antibody the nucleic acid molecule; and method of detecting and nucleic acid molecule; and method of detecting and necessariant polypoptide; and an antibody method of detecting and nucleic acid molecule; and method of detecting and nucleic acid molecule; and necessariant polypoptide; and nucleic acid molecule; and necessariant polypoptide; and necessariant polypoptides; and necessariant polyp
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Matches 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       N-PSDB; ADQ38548.
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Myocardial infarction; detection; single nucleotide
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human myocardial infarction-associated gene derived protein, SEQ ID 1039
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 22-DEC-2003; 2003WO-US040978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 1039; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (first entry)
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RESULT 19
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Matches 10
The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction.
                                                                                                                                                                                                                                                                    Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
                                                                                                                                                                                                                                     Claim 10; SEQ ID NO 1042; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-DEC-2002; 2002US-04341778P.
10-MAR-2003; 2003US-045315P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             15-JUL-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  cardiant; gene therapy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human myocardial infarction-associated gene derived protein, SEQ ID 1042.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Myocardial infarction;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   1070
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        ed gene containing one or more SNP's of the invention. Note: The was not shown in the specification. The sequence has come from ronic sequence listing downloaded from the WIPO website.
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Pred. No. 0.66;
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                                                                                                                                                                                                                                                                                       nucleotide polymorphism
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21-MAY-2001; 2001US-029544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                               New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                 WPI; 2003-040607/03
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; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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Pred. No. 0.
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The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor,

Example 2;

SEQ ID NO 1909; 134pp; English

New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma

lymphoma or

The invention describes a purified polypeptide, which fragment of a kinase, phosphatase, protease, protease

Example

2

SEQ ID NO 1907; 134pp; English

creating cancer, e.g. colon leukemia.

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RESULT 21
ABU05241
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KW Prote
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Best Local S
Matches 10
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                                                                                                                                                                                                                                                                                                                                                                                                                                                         21-MAY-2001; 2001US-0292544P

08-AUG-2001; 2001US-0310801P

01-OCT-2001; 2001US-033370P

04-DEC-2001; 2001US-0336780P

20-FEB-2002; 2002US-0358985P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     protease; protease inhibitor; transporter; cytoskeletal receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        28-MAR-2001; 2001US-0279495P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-MAR-2002; 2002WO-US009671.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Translational profiling; expressed protein tag; EPT; kinase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JAN-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ABU05241;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ABU05241 standard;
                                                                                                                                                                                                                                                                                                                                                                                                         (ZYCO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          1116 YQYQYTNWSV 1125
                                                                                                                                                                                                                                                                                     2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    1 YOYOYTWSV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        10;
                                                                                                                                                                                                                                                                                                                                                                                                         ZYCOS
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Similarity
                                                                                                                                                                                                                                                                                                                                                Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Conservative
                                                                                                                                                                                                                                                                                                                                                                                                         INC.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   10
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                                                                                                                                                                                                                                                                                                                                                Ą,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             complex; myeloma; colon cancer;
melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                Urban
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 61;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gastric
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RESULT 22
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Best Local S
Matches 10
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                                                                                                                                                                                                                                                                                                                  28-MAR-2001; 2001US-0279495R
21-MAY-2001; 2001US-0392544P,
08-AUG-2001; 2001US-0310801R
01-OCT-2001; 2001US-0326370P,
04-DEC-2001; 2001US-0336780P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Sequence 1304 AA;
                                                                                                        New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ABU05244;
                                                                                                                                                                                         WPI; 2003-040607/03.
                                                                                                                                                                                                                                                                                                                                                                                                                                28-MAR-2002; 2002WO-US009671.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 29-JAN-2003
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                                                                                                                                                                                                                                                                (ZYCO-) ZYCOS INC
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                                                                                                                                                                                                                         Tomlinson
                                                                                                                                                                                                                                                                                               ; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      protein; 1304
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Pred. No. 0.69;
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The invention describes a purified polypeptide, which fragment of a kinase, phosphatase, protease, protease

comprises inhibitor,

phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, conditions that cause reversible oxidation of PTP, (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that

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Example 2;

SEQ ID NO 1910; 134pp; English

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RESULT 23
ADL16230
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Best Local (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MIC-binding polypeptide. The polypeptides and polypurcleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human trissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder cell-cycle abnormality; enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                06-MAY-2004
                                                                                                                      Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                              13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human protein tyrosine phosphatase #26
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                                                          The invention
                                                                                       Disclosure; SEQ ID NO 79; 238pp; English
                                                                                                                                                                                       N-PSDB; ADL16229
                                                                                                                                                                                                                                   Tonks NK,
                                                                                                                                                                                                                                                                                                                                                                                            21-AUG-2003
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                                                                                                                                                                                                                                                                                                                                                          13-FEB-2003; 2003WO-EP001446
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                                                                                                                                                                                                                                                                  CEPT-) CEPTYR INC.
                                                                                                                                                                                                                                                                                   COLD-)
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                                                                                                                                                                                                     2003-712572/67.
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                                                                                                                                                                                                                                                                                 COLD SPRING HARBOR LAB
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         YQYQYTNWSV 1125
                                                                                                                                                                                                                                  Tzu-Ching
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                (first entry)
                                                          relates to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protein;
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                                                                                                                                                                                                                                   Z,
                                                          a method for identifying
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     <u>.</u>
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Pred. No. 0.69;
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                                          g a protein tyrosine
a cell_by: (i)
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RESULT 24
ADP65158
ID ADP655
XX ADP65
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XX ADP65
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XX ADP65
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XX AUToil
DE Human
XX Autoil
KW antia
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gene expression signature to diagnose or analyse the autoimmune disease or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention
                                                                                                                                                                                                                                                                                                                                                                 Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and tre-
rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromya
                                                                                              The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a patient sample containing mRNA, analysing gene expression using the mRNA that results in a gene expression signature of the mRNA, and using that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       antiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; Fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatroid architerimmune. human
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                                                                                                                                                                                                                                                                         Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             GENBANK; NP_002829.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2003072827-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Thorton
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disease; arthritide; gene
                                                                                                                                                                                                                                                                      Page; 56pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                phosphatase,
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            receptor type,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             expression analysis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0.69;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   isoform
                                                                                                                                                                                                                                                                                                                                                                    fibromyalgia and
                                                                                                                                                                                                                                                                                                                                                                                                           and treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          antirheumatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ٥,
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RESULT 25
ADM67209
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Best Local :
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, antigut, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as rheumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, ribromyalgia, osteoarthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of theological processing and treatment of the sequence is not shown of the commune diseases or arthritides. Note: This sequence is not shown of the sequence is not shown of the order of the sequence is not shown of the sequence is not shown of the sequence is not shown.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        genes for targeting in the treatment of rheumatoid arthritis in a mammal other than a mouse; diagnosis of rheumatoid arthritis in a mammal; an array or gene chip, specific for rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; screening the efficacy of a candidate drug in vitro for the treatment of collageninduced arthritis; and reducing the symptoms associated with collageninduced arthritis. The compositions of the invention have the following
                                                                                                                                                                                                             Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                              adipogenesis;
antidiabetic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1304 AA;
                                                                                                                                                                                                                                                                            29-JUL-2002;
12-JUN-2003;
                                                                                                                                                                                                                                                                                                                          29-JUL-2003; 2003WO-US023684.
                                                                                                                                                                                                                                                                                                                                                              05-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                             WO2004011618-A2
                                                                                                                                                                                                                                                                                                                                                                                                                           Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human adipocyte specific leukocyte common antigen protein SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             03-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ADM67209;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            ADM67209 standard;
                                                                                                                                                             N-PSDB;
                                                                                                                                                                                                                                             (HMGE-) HMGENE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          further comprises: a treatment of rheumatoid arthritis; identification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the specification. It has been supplied in an electronic format from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            1116 YOYOYTNWSV 1125
                                                                                                                                                              2004-143846/14.
DB; ADM66930.
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                                                                                                                                                                                                             Chouinard
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                          2002US-0398785P
2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             (first
                                                                                                                                                                                                                                                                                                                                                                                                                                                            hypotensive; leukocyte
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          group I-C protein; HMGI-C; obesity; leptin; ob;
hypertension; cardiovascular disease; anorectic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein; 1304 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             entry)
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Pred. No.
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                                                                                                                                                                                                             Sayed AMD;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           . 69;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            leptin; ob; diabetes;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0;
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This invention over-expressed

relates to in adipose

a novel method for tissue and as such 91pp; English

identifying it provides

genes that are targets for ant

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Disclosure;

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Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissumice of different genotypes.

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of.

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RESULT 26
ABO84455
ID ABO84
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Best Local S
Matches 10
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                                                                                                                                                                                                                                                                                                             14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-00388308.
15-APR-2003; 2003US-00417375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
        The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancer
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Sequence 1304 AA;
                                                                                                              New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                 17-FEB-2004; 2004WO-US004730
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Human cancer-associated protein HP13-011.2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     -obesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an
                                                                               claim 18;
                                                                                                                                                                                N-PSDB; ABD32626.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2004074320-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABO84455 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                (SAGR-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lymphoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1116
                                                                                                                                                                                                2004-652914/63.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cancer-associated protein; cytostatic; cancer; leukaemia;
ma; CAP.
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                                                                                                                                                                                                                                 Morris DW,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                               2003US-00737318
                                                                                                                                                                                                                                                                 DISCOVERY
                                                                                                             preventing or treating screening for agents
                                                                               147;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1125
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                                                                                                                                                                                                                                 Malandro MS;
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                                                                             English.
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   DB 8;
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                                                                                                                              lymphoma and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   0
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proteins. Also included are an expression vector comprising

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Best Local S
Matches 10
              WPI; 2004-533949/51.
N-PSDB; ADQ38552.
                                                                                                                                                     20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                      Myocardial infarction; detection; single nucleotide polymorphism; SNP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human myocardial infarction-associated gene derived protein, SEQ ID 1043
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     18-NOV-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                ADQ39380 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1304 AA;
                                                                          Cargill M,
                                                                                                                                                                                                                                                                                                                                       WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                        22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                                                                                                                                15-JUL-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10;
                                                                                                               APPLERA CORP
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                                                                            Devlin JJ,
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100.0%; Pr
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Pred. No. 0.69;
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RESULT 28
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Best Local :
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10-MAR-2003;
30-APR-2003;
23-SEP-2003;
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                                                                                                                                                                                  15-JUL-2004.
                                                                                                                                                                                                                       WO2004058052-A2
                                                                                                                                                                                                                                                        Homo sapiens
                                                                                                                                                                                                                                                                                           cardiant; gene
                                                                                                                                                                                                                                                                                                            Myocardial infarction; detection; single nucleotide
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                 (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; SEQ ID NO 1043; 145pp; English.
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; 2003US-0453135P.
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DB 8; Length 1306; 0,

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Similarity

100.0%; Score 61; 100.0%; Pred. No.

Sequence 1306 AA;

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The invention relates to a novel method for identifying an individual who CC has an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of CC the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least CC 8 contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody CC that specifically binds to the polypeptide or its antigen-binding CC that specification and which is between about 16 and 1000 nucleotides in CC specification and which is between about 16 and 1000 nucleotides in CC polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; an method of detecting and sNP in a nucleic acid molecule; a method of detecting and an antipolyment of provides and an enzyme; a method of detecting and sNP in a nucleic acid for identifying an amethod of detecting and sNP in a nucleic acid molecule; a method of detecting and sNP in a nucleic acid molecule; and an enzyme; a method of detecting and sNP in a nucleic acid for identifying an amethod of detecting and sNP in a nucleic acid molecule; and an enzyme; a method of detecting and sNP in a nucleic acid molecule; and an enzyme; a method of detecting and sNP in a nucleic acid molecule; and an enzyme; a method of detecting and sNP in a nucleic acid molecule; and a method of detecting and sNP in a nucleic acid molecule; and a method of detecting and sNP in a nucleic acid molecule; and a method of detecting and sNP in a nucleic acid molecule; and a method of detecting and sNP in a nucleic acid molecule s
                                                            method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        WPI; 2004-533949/51.
N-PSDB; ADQ38547.
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Copyright (c) 1993 - 2005
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ULIT 2 OGOIM9 OGOIM9; OSOJUL-2004 (TrEMBLrel. 27, Cr 05-JUL-2004 (TrEMBLrel. 27, La 05-JUL	imilarity; Conserva; Conserva	NCBI_TaxID=9606; [1] SEQUENCE FROM N.A. PubMed=15014144; DOI=10.1 Pilip L.C., Mundy N.I.; "Rapid Evolution by Posit Domain of the Abundant Li, Mol. Biol. Evol. 21:1504- EMBL; AY539691; AAS46946 NON TER 1 NON_TER 72 SEQUENCE 72 AA; 8003 N	PRELIMINARY (TrEMBLrel. (TrEMBLrel. (TrEMBLrel. (TrEMBLrel) (TrEMBLrel) (Ent) (TremBLrel)	7 7 7 7 7 7 7 7 7 7 7 7 7 8 4 4 4 4 4 4
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PRT; 72 AA. eated) st sequence update) st annotation update) craniata; Vertebrata; Catarrhini; Hominidae; Catarrhini Gatae; colbev/msh11; arwinian Selection in preparate	0%; Score 43; DB 2; Length 0%; Pred. No. 0.1; 0; Mismatches 0; Indel	/molbev/msh111; Darwinian Selection cyte Protein CD45 ii 11(2004)	PRT; 72 AA. Created) Last sequence update) Last annotation update) a; Craniata; Vertebrata;	2 Q71SM4 2 Q9APE6 2 Q9EZ03 2 Q9F871 2 Q9F871 2 Q9F877 2 Q9F877 2 Q9F878 2 Q9F884 3 Q814M1 2 Q70XZ4 2 Q73N41
e) a; Euteleostomi; ae; Gorilla. in the Extracellular	ch 72; hels 0; Gaps 0;	in the Extracellular n Primates.";	Euteleostomi;	Q71sm4 escherichia Q9ape6 escherichia Q9ez03 escherichia Q9f871 escherichia Q9f873 escherichia Q9f873 escherichia Q9f876 escherichia Q9f877 escherichia Q9f877 escherichia Q9f878 escherichia Q9f878 escherichia Q9f878 escherichia Q9f878 escherichia Q9f8784 escherichia Q9f8784 escherichia Q9f8784 escherichia Q9f8784 escherichia Q9f8784 escherichia Q9f8784 escherichia Q79784 amborella t Q737841 treponema d

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PubMed=15014144; DOI=10.1093/molbev/mshll1;

Filip L.C., Mundy N.I.;

"Rapid Evolution by Positive Darwinian Selection i Domain of the Abundant Lymphocyte Protein CD45 in Mol. Biol. Evol. 21:1504-1511(2004).
                                                                           Domain of the Abundant Lymphocyte Protein CD45 Mol. Biol. Evol. 21:1504-1511(2004).
                                                                                                             Filip L.C., Mundy N.I.;
"Rapid Evolution by Positive Darwinian
                                                                                                                                                        SEQUENCE FROM N.A.
PubMed=15014144; DOI=10.1093/molbev/mshlll;
                                                                                                                                                                                               NCBI_TaxID=33548;
[1]
                                                                                                                                                                                                                                                      Eukaryota; Metazoa;
Mammalia; Eutheria;
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Mammalia; Eutheria;
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Eukaryota; Metazoa; Chordata;
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                          77
  AA;
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    8789
                                                                                                                                                                                                                                                        Chordata;
Primates;
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100.0%; Pred. No. 0.
tive 0; Mismatcher
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Last annotation update)
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  5F58DB11E1DC818C CRC64;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Score 43;
Pred. No.
                                                                                                                                                                                                                                                        Craniata; Vertebrata; Euteleostomi; Catarrhini; Cercopithecidae; Colobinae;
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Catarrhini; Hominidae;
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                                                                                                                 the Extracellular
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RESULT 6
ID QQIM6
ID Q6QI
AC Q6QI
DT 05-C
DT 05-C
DT 05-C
DT 05-C
OC COA
OC Man
OC Man
OC MAN
CO CC
OX NCI
RN (1)
RN (1)
RN P1
RX PU
RX P1
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Best Local S
Matches 9
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Best Local Similarity
Matches 9; Conserv
Query Match
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Q6QIM6;
05-JUL-2004 (TrEMBLrel. 2
05-JUL-2004 (TrEMBLrel. 2
05-JUL-2004 (TrEMBLrel. 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eutele Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae; Cercopithecinae; Cercopithecus.
NCBI_TaxID=36227;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q6QIM5;
05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
                                                                                      NON_TER
                                                                                                                                "Rapid Evolution by Positive Darwinian Selection in the Extracellular Domain of the Abundant Lymphocyte Protein CD45 in Primates."; Mol. Biol. Evol. 21:1504-1511(2004).
EMBL; AY539696; AAS46951.1; -.
                                                                                                                                                                                                                         SEQUENCE FROM N.A.
PubMed=15014144; DOI=10.1093/molbev/msh111;
Filip L.C., Mundy N.I.;
                                                                                                                                                                                                                                                                                                                                     Macaca nemestrina (Pig-tailed macaque).
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecidae;
Cercopithecinae; Macaca.
                                                                                                                                                                                                                                                                                                                                                                                                                                CD45 (Fragment).
Name=PTPRC;
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EMBL; AY539697; AAS46952.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         SEQUENCE FROM N.A.
PubMed=15014144; DOI=10.1093/molbev/msh111;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                CD45 (Fragment).
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                                                                   SEQUENCE
                                                                                                                                                                                                                                                                                                                  NCBI_TaxID=9545
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ilip L.C., Mundy N.I.,
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                                                                   8918 MW;
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Last sequence update)
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                                                                   D82A0CB0CED66758 CRC64;
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Pred. No. 0.11;
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Pred. No. 0.11;
  Score 43; DB 2;
Pred. No. 0.11;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Mismatches
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Matches 9
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RM MEDIINE-22388257; PubMede-12477932; DOI=10.1073/pnas.242603899;

RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RA HOpkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Wedin T.B., Toshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., Medin T.B., Foeshiyuki S., Carninci P., Prange C.,

RA Brownstein M.J., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hullyk S.W.,

VI Lalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

VA VIllalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

VA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

VA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

VA Holling M. M., Green E.D., Dickson M.C.,

Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,

Krope S. T. Marya M.A., N. Schalba D.E., Schnerch A., Schein J.E.,

Name S. T. Marya M.A., N. Schalba D.E., Schnerch A., Schein J.E.,

Name S. T. Marya M.A., N. Schalba D.E., Schnerch A., Schein J.E.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Matches
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PRINTS; PR00700; PRIYPHPHTASE.
SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 1.
PROSITE; P850853; FN3; 2.
PROSITE; P850855; TYR PHOSPHATASE PTP; 1.
NON TYPE
NON TYPE
                                                                                                                                                                                                                                                                                                                                                                                                                                                              InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like
InterPro; IPR000242; Tyr_pp.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     EMBL; BC014239; AAH14239.1; -.
HSSP; P18031; 1AAX.
GO:0004725; F;protein tyrosine phosphatase activity; IEA.
GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Submitted (SEP-2001) to the EMBL/GenBank/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           and mouse cDNA sequences.";
Proc. Natl. Acad. Sci. U.S.
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Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       05-JUL-2004 (TrEMBLrel.
PTPRC protein (Fragment)
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05-JUL-2004
                                                                                                                                                                                                                      SEQUENCE
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196
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9; Conserv
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Primates;
                                                                                                                                                                                                                   85430 MW;
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                                                                                                                               Score 43; DB
Pred. No. 1.1;
                                                                                                                                                                                                                      8A9A863827BD69E6 CRC64;
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                                                                                                              Mismatches
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1 J.E.,
                                                                                                        Gaps
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SMART; SM00060; FN3; 2.

SMART; SM00104; PTPC; 2.

SMART; SM00104; PTPC motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS00383; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
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Q6ED61;
25-OCT-2004
25-OCT-2004
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25-OCT-2004
25-OCT-2004
25-OCT-2004
Tissue Antigens 64:165-172(2004).

EMBL, AY445817; AAS06902.1; -.

GO:0004725; F:protein tyrosine phosphatase activity; IEA

GO; GO:0006470; P:protein amino acid dephosphorylation; IEA.
                                                                                                                                                                                                                                                                                                                               Eukaryota; Metazoa;
Mammalia; Eutheria;
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Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE
                                                                                                                      vs. human.";
                                                                                                                                               Montoya G.E., Vernot o
                                                                                                                                                                                                                                                                                                                                                                                                                            CD45.
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EMBL; AY445818; AAS06903.1; -.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
                                                                                                                                                                                                              PubMed=15245371
                                                                                                                                                                                                                                                                                                                                                                                       Aotus nancymaae (Ma's night monkey)
                                                                                                                                                                                                                                                                                                                                                                                                                                                         25-OCT-2004
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                                                                                                                                                                                                                                          SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                               NCBI_TaxID=37293;
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); IPR008957; FN III-like.
); IPR003595; PTPC motif.
); IPR000387; TYR phosphatase.
); IPR000242; Tyr PP.
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analysis of CD45 proteir
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                                                                                                                                                                                     J.P.,
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                                                                                                                                                                                     Patarroyo M.
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Pred. No. 1.9
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                                                                                                                                                                                                                                                                                                                               Euteleostomi;
Aotinae; Aotu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Aotinae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Euteleostomi;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        HEA.
                                                                                                                                                      owl monkeys
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                                                                                                                                                                                                                                                                                                                                     Aotus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Aotus.
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KLFTAKLNV

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RESULT 10
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                                                          Query Match
Best Local S
Matches 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Query Match
Best Local S
Matches 9
                                                                                                                                                                           Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

Pfam; PF00102; Y phosphatase; 2.

PRINTS; PR00700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM000404; PTPC; motif; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS50853; FN3; PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_7: 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Q6ED62;
25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro;
InterPro;
InterPro;
                                                                                                                                                                                                                                                                                                                                                                                      InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
InterPro; IPR003595; PTPC motif.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR000242; TYr_PP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC motif; 2.

PROSITE; PS50853; FN3; 2.

PROSITE; PS00383; TYR PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR PHOSPHATASE 2; 2.

PROSITE; PS50055; TYR PHOSPHATASE PTP; 2.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Tissue Antigens
EMBL; AY445816;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Aotus nigriceps (Black-headed
Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  GO; GO:0004725;
GO; GO:0006470;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Montoya G.E., Vernot in "Comparative analysis"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Eukaryota; Metazoa;
Mammalia; Eutheria;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              PRINTS; PR00700;
SMART; SM00060; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     vs. human.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  PubMed=15245371;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NCBI_TaxID=57175;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Q6ED62
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                GO:0004725; F:protein tyrosine phosphatase activity; GO:0006470; P:protein amino acid dephosphorylation; 1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            244
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                                                        Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; IPR003961;
; IPR008957;
; IPR003595;
; IPR000387;
KLFTAKLNV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              KLFTAKLNV
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ilarity 100.
Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            252
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               FN_III.
FN_III-like.
FTPc_motif.
TYR_phosphatase.
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s of CD45 protein in p
                                                                                                                                           146586 MW;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Tyr_PP.
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28,
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Last sequence update)
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Pred.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                owl monkey).
Craniata; Vertebrata;
Platyrrhini; Cebidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       2
                                                                              Score 43;
Pred. No.
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                                                            Mismatches
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                                                                                                                                           9BB023EBF4BC1165 CRC64;
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                                                          0
                                                                                               Length 1303;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Length 1303;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           context:
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                                                          Indels
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Aotinae; Aotu
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  ; IEA.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           QW.
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                                                          Gaps
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          0
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CD45 HUMAN
ID CD45 H
CD5 C1-1 L
CD45 H
CD46 
                                                                                                                                                                                                                                tyrosine + phosphate.
-!- SUBUNIT: Binds GANAB and PRKCSH
-!- SUBCELLULAR LOCATION: Trans-
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                TISSUE-Lymphocytes;

MEDLINE-88061067; PubMed=2824653;

Streuli M., Hall L.R., Saga Y., Schlossman S.F.,

"Differential usage of three exons generates at mRNAs encoding human leukocyte common antigens."

J. Exp. Med. 166:1548-1566(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CD45 HUMAN STANDARD; PRT; 13
P08575; Q16614; Q9H0Y6;
01-AUG-1988 (Rel. 08, Created)
10-CCT-2003 (Rel. 42, Last sequence up
05-JUL-2004 (Rel. 44, Last annotation
Leukocyte common antigen precursor (EC
                                                                                                                                                                                                                                                                                                                                                                  EMBO J. 9:2399-2407(1990).

-!- FUNCTION: Required for T-cell activation through the antigen receptor. The first PTPase domain has enzymatic activity, while the second one seems to affect the substrate specificity of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=90316093; PubMed=1695146;
MEDLINE=90316093; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tang M., Saito H.;
"Distinct functional roles of the two intracellular phosphatase like "Distinct functional roles of the two intracellular phosphatases LCA and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=89017162; PubMed=2845400;
Charbonneau H., Tonks N.K., Walsh.K.A., Fischer E.H.;
"The leukocyte common antigen; (CD45): a putative receptor-linked protein tyrosine phosphatasd.";
Proc. Natl. Acad. Sci. U.S.A. 85:7182-7186 (1988).
[5]
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MEDIINE-89009812; PubMed=2971730; Hall L.R., Streuli M., Schlossman ("Complete exon-intron organization antigen (CD45) gene."; J. Immunol. 141:2781-2787(1988).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MUTAGENESIS.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ralph S.J., Thomas M.L., Morton C.C., "Structural variants of human T200 gl:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBO J. 6:1251-1257(1987).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MEDLINE=87275816; PubMed=2956090;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           FUNCTION
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        antigen).
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   NCBI_TaxID=9606;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lomo sapiens
IsoId=P08575-2; Sequence=VSP_007780; PTM: Heavily N- and O-glycosylated. SIMILARITY: Belongs to the protein-tyro Receptor class 1/6 subfamily.
                                                                                                                                                                          SUBCELLULAR LOCATION: Type 1
ALTERNATIVE PRODUCTS:
Event=Alternative splicing;
Comment=At least 8 isoform
                                                                                                                                                          Name=1;
                                                                                                                                  IsoId=P08575-1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (ISOFORM .2),
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                FROM
                                                                                                                             Sequence=Displayed;
                                                                                                                                                                                                                                                                                                                                        Protein tyrosine phosphate +
                                                                                                                                                                                  isoforms
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Craniata; Vertebrata; Euteleostomi; Catarrhini; Hominidae; Homo.
                          protein-tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           AND
                                                                                                                                                                                                             Named
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(EC 3.1.3.48)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           update)
                                                                                                                                                                                                                                                                                     (By similarity)
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                                                                                                                                                                                produced;
                                                                                                                                                                                                             isoforms=2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Saito
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 at least
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SPLICING
                             phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Saito
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                                                                                                                                                                                                                                                                                                                                        H(2)0 = protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   five
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                common
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GO; GO:0005807; C:integral to plasma membrane; TAS.
GO; GO:0005001; F:transmembrane receptor protein tyros
GO; GO:0007166; P:cell surface receptor linked signal
InterPro; IPR003961; FN III-like.
InterPro; IPR003961; FN III-like.
InterPro; IPR003957; FN III-like.
InterPro; IPR000387; TYR phosphatase.
InterPro; IPR0000242; Tyr_pp.
Pfam; PF00102; Y phosphatase; 2.
R PROSITE; PS50055; FNT; PHOSPHATASE 1; 2.
R PROSITE; PS500583; TYR PHOSPHATASE 2; 2.
R PROSITE; PS50055; TYR PHOSPHATASE 3; R PROSITE; PS50055; TYR PHOSPHATASE 3; 2.
R PROSITE; PS50055; TYR PHOSPHATASE 3; 3.
  Transmembrane.
SIGNAL 1
CHAIN 24
CHAIN 24
DOMAIN 576
TRANSMEM 576
DOMAIN 598
DOMAIN 390
DOMAIN 482
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GlycoSuiteDB;
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PubMed=15014144; DOI=10.1093/molbev/mshl11;
Filip L.C., Mundy N.I.;
"Rapid Evolution by Positive Darwinian Sele:
"Rapid Evolution by Positive Protein Clomain of the Abundant Lymphocyte Protein Clomain of the Abundant Lymphocyte Protein Clomal. Biol. Evol. 21:1504-1511(2004).

EMBL; AY539694; AAS46949.1; ...
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Eukaryota; Metazoa; Chordata;
Mammalia; Eutheria; Primates;
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C STRAIN=ATCC 35092 / DSM 1617 / P2;

C STRAIN=ATCC 35092 / DSM 1617 / P2;

X MEDLINE=21332296; PubMed=11427726; DOI=10.1073/pnas.141222098;

X MEDLINE=21332296; PubMed=11427726; DOI=10.1073/pnas.141222098;

X MEDLINE=21332296; PubMed=11427726; DOI=10.1073/pnas.141222098;

X MEDLINE=21332296; PubMed=110.1073/pnas.141222098;

X She Q., Singh R.K., Confalonieri F., Zivanovic Y., Allard G.,

A Awayez M.J., Chan-Weiher C.C.-Y., Clausen I.G., Curtis B.A.,

A De Moors A., Erauso G., Fletcher C., Gordon P.M.K.,

A Heikamp-de Jong I., Jeffries A.C., Kozera C.J., Medina N., Peng X.,

A Heikamp-de Jong I., Jeffries A.C., Kozera C.J., Medina N., Peng X.,

A Thi-Ngoc H.P., Redder P., Schenk M.E., Theriault C., Tolstrup N.,

A Charlebois R.L., Doolittle W.F., Duguet M., Gaasterland T.,

Garrett R.A., Ragan M.A., Sensen C.W., Van der Oost J.;

"The complete genome of the crenarchaeon Sulfolobus solfataricus P2."

D Proc. Natl. Acad. Sci. U.S.A. 98:7835-7840(2001).

B DIB., CROASE, CROASE.
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Filip L.C., Mundy N.I.;
"Rapid Evolution by Positive Darwinian Selection in the Extracellular
Domain of the Abundant Lymphocyte Protein CD45 in Primates.";
Mol. Biol. Evol. 21:1504-1511(2004).
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05-JUL-2004 (TrEMBLrel.
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Mammalia; Eutheria; Primates; Catarrhini; Hylobatidae; Hylobates.
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Pred. No. 4.1;
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Matches 7
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Rattei T., Mewes H.-W., Wagner M.;
"Genome sequence of an amoeba symbiont and its use for
the evolutionary history of chlamydiae.";
Submitted (JAN-2003) to the EMBL/GenBank/DDBJ database
EMBL; BX908798; CAF23276.1; -.
EMBL; BX908798; CAF23276.1; -.
EGO; GO:0005215; F:transporter activity; IEA.
GO; GO:0005215; F:transporter activity; IEA.
InterPro; IPR0103423; OEP.
InterPro; IPR010313; NND_outer_NodT.
Pfam; PF02321; OEP; 2.
TICRPAMS; TICR01045; RND_outer_NodT; 1.
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Q6MDS3; PRELIMINARY; Creat
05-JUL-2004 (TrEMBLrel. 27, Last
05-JUL-2004 (TrEMBLrel. 27, Last
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Parachlamydia sp. (strain UWE25) (subsp. Acanthamoeba sp.).
Bacteria; Chlamydiae; Chlamydiales; Parachlamydiaceae; Parachlamydia.
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KLFTAQLNL
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Nyakatura G.J.,
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Search completed: May 3, Job time: 49.1351 secs 2005, 05:58:48

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Minimum DB
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Listing first 45 summaries
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Copyright (c) 1993 - 2005 Compugen Ltd.
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	ω	2	Ļ	Result No.
51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	Score
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Aag48634 Ara	Adn47276 The	Abu50501 Pro	Ads44221 Bac	Abo61639 Kle	Abu38869 Pro	Aab96190 Put	Abo73710 Pse	-	Abm73414 Sta	Abm56242 Pro	Aau59723 Pro	Abg31979 Human	Adq39375 Human	Adq39380 Human	Abo84455 Human	Adm67209 Human	Adp65158 Human	Adl16230 Human	ADUU5244 Human
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ALIGNMENTS

RESULT 1 ABG31980 Human CD45 HLA-binding peptide, huCD45/292. 05-NOV-2002 (first entry) ABG31980 standard; ABG31980; peptide; 10 ξ

Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell; ceceptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic; haematopoietic; malignant.

Homo sapiens.

WO200244207-A1.

06-JUN-2002.

30-NOV-2000; 2000WO-GB004566.

30-NOV-2000; 2000WO-GB004566.

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

HJ, Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
AAR26823
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The peptide is an example of a cell adhesion polypeptide contg. the amino sequence x-Asp-Y-(A)n-Phe, where X and Y = Ala, Leu, Ile or Val, A= any amino acid and n= 3-10. At least a subsequence of the polypeptide is adherent for MOLT-4 human lymphoblastic leukaemia, A375-SM human metastatic melanoma or H1080 human fibrosarcoma cells. The cell adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             07-FEB-1991;
08-FEB-1991;
                                                                                                                                                                                                                                                       New cell adhesion (poly)peptide(s) modifying cell adhesive properties useful in treating inflammatory conditions e.g. rheumatoid arthritis, asthma, inflammatory bowel disease, sepsis, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MOLT-4; human; lymphoblastic leukaemia; A375-SM; metastatic; melanoma; H1080; fibrosarcoma; LDV; LDL; IDA; inflammatory disease; rheumatoid arthritis; asthma; sepsis; graft rejection; reperfusion.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         peptides are used to modify or control the adhesive properties of cells, e.g. in treatment of inflammatory conditions such as rheumatoid arthritis, asthma, sepsis, graft rejection, inflammatory bowel disease, reperfusion of cardiac tissue after myocardial infarction, and coagulatory disorders. They are selective antagonists of cell adhesion, e.g. they promote adhesion of the speccified cells but inhibit adhesion to the natural adhesion protein contg. the adhesive sequence. See also ARR2681-30 and ARR30887-903. (Updated on 25-MAR-2003 to correct PN
           peptides are used to modify or control the adhesive properties of cells, e.g. in treatment of inflammatory conditions serbumatoid arthritis, asthma, sepsis, graft rejection, inflammatory bowel disease, reperfusion of cardiac tissue after myocardial infarction, and coagulatory disorders. They are selective antagonists of cell adhesion, e.g. they promote adhesion of the speccified cells but inhibit adhesion to the natural adhesion protein contg. the adhesive sequence. See also AAR36821-30 and AAR30887-903. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                      The peptide is an example of a cell adhesion polypeptide contg. the amino sequence X-Asp-Y-(A)n-Phe, where X and Y = Ala, Leu, Ile or Val, A= any amino acid and n= 3-10. At least a subsequence of the polypeptide is adherent for MOLT-4 human lymphoblastic leukaemia, A375-SM human metastatic melanoma or H1080 human fibrosarcoma cells. The cell adhesion
                                                                                                                                                                                                                                                                                                                     New cell adhesion (poly)peptide(s) modifying cell adhesive properties useful in treating inflammatory conditions e.g. rheumatoid arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 07-FEB-1991;
08-FEB-1991;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-MAR-2003
09-FEB-1993
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Sequence 19
                                                                                                                                                                                                                                                               Disclosure; Page 11; 23pp; English.
                                                                                                                                                                                                                                                                                                                                                                           WPI; 1992-299988/36.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Synthetic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLT-4; human; lymphoblastic leukaemia; A375-SM; metastatic; melanoma;
H1080; fibrosarcoma; LDV; LDL; IDA; inflammatory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Cell adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          AAR30900 standard;
                                                                                                                                                                                                                                                                                                    asthma, inflammatory bowel disease, sepsis, etc.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    06-FEB-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-AUG-1992.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             rheumatoid
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             arthritis; asthma; sepsis; graft rejection; reperfusion.
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(first ent
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    polypeptide CD45.
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91GB-00002818.
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Pred. No. 0.087;
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RESULT 4
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                                                                                                         graft cell, or selectively targets a stimulator cell involved in the autoimmune response. A veto molecule, in which the protein binds a molecule that targets stimulator cells, can be used to suppress an immune response and therefore treat autoimmune diseases, e.g. systemic lupus erythematosus, myasthenia gravis, rheumatoid arthritis, insulin dependent diabetes mellitus, multiple sclerosis, coellac disease, autoimmune thyroiditis, Addison's or Grave's diseases and rheumatoid carditis, allergies and other immunological disorders. Where the protein binds a molecule that differentiates graft and host cells, the veto molecule can be used to reduce transplant rejection. The veto molecule provides specific regulation of particular stimulator cells that can kill graft cells or respond to autoantigens, but leave other stimulator cells unaffected, e.g. CD4 or CD8 positive cells can be regulated without one affective the other who were molecule can be regulated without one
                                                                                                                                                                                                                                                                                                                         A novel T lymphocyte veto molecule is a chimeric molecule comprising a protein, e.g. the present sequence, linked to a targetting polypeptide that binds a molecule, which differentiates a host cell from a tissue
                                                                                                                                                                                                                                                                                                                                                                                                                     T lymphocyte veto molecule comprising response cell activating protein linked to molecule that targets stimulator cell marker, used for selective suppression of immune response, e.g. prevention of graft rejection or treatment of auto-immune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Human; CD45; T lymphocyte veto molecule; chimeric molecule; targetting polypeptide; suppression; immune response; treatment; autoimmune disease; allergy; immunological disorder;
                                                   Sequence
                                                                                                 unaffected, e.g. CD4 affecting the other.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human CD45 for use in T lymphocyte veto molecule.
                                                                                                                                                                                                                                                                                                                                                                                         Claim 37; Page 70-72; 309pp; English.
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10; Conserv
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     100.0%;
                                                                                immunosuppression
                                                                                                 The veto molecule
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      Score
Pred.
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Pred. No. 0.092;
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      No.
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                                                                                                  can be administered locally to
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RESULT 5
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                                                                                                                                                                                                                                                                                                                                      The invention describes a purified polypeptide, which comprises a confidence of a kinase, phosphatase, protease, protease inhibitor. The transporter cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a confidence of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                  expressed protein tag (EPT) isolated from human tissue for try
profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly
ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of the cancer cancer, gastric cancer, sarcoma, lymphoma of the cancer c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   protease; protease inhibitor; transporter; cyroskeletal preceptor; transcription factor; cancer; MIC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                      Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                269 TLILDVPPGV
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        100.0%;
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Query Match Best Local Similarity

Score Pred.

51; No.

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RESULT 7
ABU07333
ID ABU0
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Best Local
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                                                                                                                                                                                                                                          The present invention provides the protein and coding sequences of novel proteins from a variety of organisms, including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  25-JAN-2000; 2000US-00491404.
17-JUL-2000; 2000US-00617746.
03-AUG-2000; 2000US-00661451.
15-SEP-2000; 2000US-00663870.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; tomato; monkey; dog; sea urchin; expressed sequence tag; ES; diagnostics; forensic test; gene mapping; genetic disorder;
  ABU07333;
                                                                                                                                                                                                                                                                                                                                                                                  Isolated polypeptide for treatment of diseases, antibodies and research use.
                            ABU07333 standard;
                                                                                                                                                                                                       Sequence 641 AA;
                                                                                                                                                                                                                                  protein of the invention
                                                                                                                                                                                                                                                                                                                                                          Claim 20;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Tang YT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     25-JAN-2001; 2001WO-US002687
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                                                                                              TLILDVPPGV 142
                                                                                                                                                                                                                                                                                                                                                       Page 875-876; 1275pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Liu C,
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A, Zhang
                          protein; 641
                                                                                                                                                              100.0%;
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J, W
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Pred. No. 3
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                                                                                                                                                                           Length 641;
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RESULT 8
AAM39262
ID AAM3
XX
AC AAM3
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                                                                                                                                                                                                                        fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide, is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing chypena, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at fip.wipo.int/pub/published_pct_sequences
                                                                                                                                                 Query Match
Best Local Similarity
Matches 10; Conserv
  AAM39262;
                            AAM39262
                                                                                                                                                                                                       Sequence 641 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      21-WAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-032370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-0CT-2001; 2001US-0326370P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protease; protease inhibitor; transporter; creceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 adenocarcinoma;
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                                                                                                            TLILDVPPGV
                                                                                              TLILDVPPGV 142
                          standard;
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protease inhibitor; transporter; cytos
                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 2034; 134pp; English.
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                          protein; 664
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Pred. No. 3.5;
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cytoskeletal protein;
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                                                                                                                           encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleorides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral nervopathies and central nervous system disease, such as alzheimer's, parkinson's disease, Huntington's disease, such as alzheimer's, parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activity, Chemotactic/Chemokinetic activity, hemostatic/and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   23-DEC-1999;
21-JAN-2000;
25-APR-2000;
25-JUN-2000;
19-JUL-2000;
03-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Wang
                                                                                                      Sequence
                                                                                                                                                                                                                                                                                                                                             Example
                                                                                                                                                                                                                                                                                                                                                                    as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                  Novel nucleic acids and polypeptides, useful
                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB; AAI58418.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer; peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
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19-OCT-2000;
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                                                                                                                                                                                                                                                                                                                invention relates to human nucleic acids (AAI57798-AAI61369) and the
  133
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                                                    10;
                                                                Similarity
                                                                                                                                                                                                                                                                                                                                          4; SEQ ID NO 2407; 10078pp; English.
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                                                                                                     664
TLILDVPPGV 142
                          TLILDVPPGV 10
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2000US-00488725.
2000US-00552317.
2000US-00598042.
2000US-00620312.
2000US-00623450.
2000US-00662191.
2000US-00662191.
2000US-00623450.
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Wehrman T,
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Yang Y,
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I, Zhao
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RESULT 9 ABU07334

RESULT 10 ABU05246

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                                                                                                                                         The invention describes a purified polypeptide, which comprises a configuration of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide, cytoskeletal protein, receptor or transcription factor. The collection as an immunogenic composition for eliciting in a collection and collection as an immunogenic composition for eliciting in a collection and collection is useful for response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this collection is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed collection cancer, gastric cancer, adenocarcing or preventing myeloma, colon cancer, gastric cancer, adenocarcing, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed composition to the protein tag cancer and the printed collection but was obtained in electronic format directly from WIPO at fig.wipo.int/pub/published_pct_sequences
                                                                  Query Match
Best Local S
Matches 10
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kinase; phosprotease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                       Sequence
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 133
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                                                                                   Similarity
TLILDVPPGV 142
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RESULT 11
ABU05239
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                                                                                                                                                                                                                                         Matches
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Best Local Similarity
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21-MAY-2001; 2001US-029544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                          Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Example 2;
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                                                                                                                    TLILDVÞÞGV 111
                                                                                                                                                                        TLILDVPPGV 10
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Pred. No. 6.
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RESULT 12
ABU05240
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                                                                                                         Query Match
Best Local
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
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                                                                                                                                                                         Sequence 1114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             leukemia.
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102 TLILDVPPGV 111
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Best Local :
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336730P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                           mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the female of the sequence represents an expressed that the sequence of the se
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                                                                                                                                                                                                                                                                       expressed protein tag (EPT) isolated from human tissue for traprofiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly
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131 TLILDVÞÞGV 140
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                                                                                              l Similarity
10; Conserv
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                                                                                                 0;
                                                                                                                      Score 51;
Pred. No.
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                                                                                                 Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gastric cancer, sarcoma,
                                                                                                                      6.4;
                                                                                                                                              DB 6; Length 1143;
                                                                                                 0,
                                                                                                 Indels
                                                                                                                                                                                                                                                                                                                            for translational
                                                                                                 0
                                                                                                                                                                                                                                                                               from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                phosphatase;
                                                                                                 Gaps
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RESULT 13 ABU05245

RESULT 14 ADL16232

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                                                                                                                   Matches
                                                                        Query Match
Best Local
                                                                                                                                        myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, lymphoma or leukaemia. These are also useful for screening agent treating the above mentioned diseases. This sequence represents expressed protein tag (EPT) isolated from human tissue for trans profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly froftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                             mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypuclectides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                     The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription fac polypeptide is useful as an immunogenic composition for eliciting
                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptides (e.g. cytoskeletal proteins, treating cancer, e.g. (
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                 Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    08-AUG-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Human expressed protein tag
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  21-MAY-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-MAR-2001; 2001US-0279495P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                             Leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              (ZYCO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          ABU05245 standard; protein; 1143 AA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2003-040607/03.
 131
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                                                          10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ZYCOS
                                                                        Similarity
TLILDVPPGV 140
                             TLILDVPPGV 10
                                                                                                                    1143
                                                                                                                                                                                                                                                                                                                                                                                                                SEQ ID NO 1911; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tomlinson
                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         2001US-0326370P.
2001US-0336780P.
2002US-0358985P.
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2001US-0310801P.
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                                                                                                                   Ä
                                                                                                                                                                                                                                                                                                                                                                                                                                                         .g. colon cancer,
                                                                      100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Ą,
                                                                                                                                                                                                                                                                                                                                                                                                                                                         kinases, phosphatases, proteases, transporters, receptors or transcription factors), useful for colon cancer, gastric cancer, sarcoma, lymphoma of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Urban
                                                          0
                                                        Score 51; DB
Pred. No. 6.4
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (EPT) #1911.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RG
                                                                      6.4;
                                                                                       DΒ
                                                                                    6;
                                                                                    Length 1143;
                                                          Indels
                                                                                                                                                                                           for translational
                                                                                                                                                                                                                                                                                                                                        eliciting
                                                                                                                                                                                                                      agents
                                                          0,
                                                                                                                                                             from WIPO
                                                                                                                                                                                                                                                                                                                                                      factor.
                                                        Gaps
                                                                                                                                                                                                                                    melanoma,
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ADQ18845
ID ADQ1
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                                                                                                                                                                                                                       RESULT 15
                                                                                                                                                                                                                                                             The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where cells of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly condifies such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune disease; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                         Query Match
Best Local (
                                                                                                                                                          Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder; cell-cycle abnormality; enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               screening for specific mounts cancer or autoimmune disease.
                ADQ18845 standard;
                                                                                                                                                                                                                     Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; SEQ ID NO 81; 238pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tonks
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-FEB-2003; 2003WO-EP001446
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 06-MAY-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADL16232 standard; protein; 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     2003-712572/67
                                                                                             131
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                                                                                                                           1 TLILDVPPGV 10
                                                                                                                                                          10;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      ADL16231.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                COLD SPRING HARBOR LAB. CEPTYR INC.
                                                                                                                                                                       Similarity
                                                                                               TLILDVPPGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Tzu-Ching
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ig reversibly oxidized protein tyrosine phosphatase, useful in
for specific modulators, potential agents for treating e.g.
                                                                                                                                                          Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (first entry)
                                                                                                                                                                                                                       A
A
              protein; 1143 AA.
                                                                                             140
                                                                                                                                                                      100.0%;
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                                                                                                                                                          0
                                                                                                                                                                       Score 51;
Pred. No.
                                                                                                                                                          Mismatches
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                                                                                                                                                                       6.4;
                                                                                                                                                                                     DB 7;
                                                                                                                                                          0
                                                                                                                                                                                      Length 1143;
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RESULT 16
AAM41048
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                          which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples, where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                        Human; nootropic; immunosuppressant; cytostatic; gene therapy; cance peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                                                                                                   Human
                                                                                                                                                                                                             AAM41048 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel which comprises obtaining a first
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2004-441208/41
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Aziz N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 26-NOV-2002; 2002US-0429739P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WO2004048938-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human soft tissue sarcoma-upregulated protein -
                         chemokinetic;
                                                                                                                                                   22-OCT-2001
                                                                                                                                                                                 AAM41048;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-NOV-2003; 2003WO-US038193
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              10-JUN-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     soft tissue sarcoma; cytostatic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  26-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ADQ18845;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
            eukaemia
                                                                                                                                                                                                                                                                                                                                                                   Local Similarity
                                                                                                                                                                                                                                                                                           131
                                                                                                                 polypeptide SEQ ID NO 5979.
                                                                                                                                                                                                                                                                                                                                                   10;
                                                                                                                                                                                                                                                                                                                       1 TLILDVPPGV 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ginsburg WM,
                                                                                                                                                                                                                                                                                           TLILDVPPGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID NO 1664; 210pp; English.
                                                                                                                                                                                                                                                                                                                                                   Conservative
                                                                                                                                                   (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  (first entry)
                         thrombolytic; drug screening;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    DESIGN
                                                                                                                                                                                                             protein; 1149 AA.
                                                                                                                                                                                                                                                                                                                                                                  100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    LABS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Zlotnik A;
                                                                                                                                                                                                                                                                                                                                                     0,
                                                                                                                                                                                                                                                                                                                                                     Score 51; DB
Pred. No. 6.4
D; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               method for detecting soft tissue sarcoma
                                                                                                                                                                                                                                                                                                                                                                     6.4;
                                                                                                                                                                                                                                                                                                                                                                                  BB
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                                                                                                                                                                                                                                                                                                                                                     0
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                  Length 1143;
                                                                                                                                                                                                                                                                                                                                                       Indels
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                                                                        cancer;
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RESULT 17
ABU05242
ID ABU05242
XX
ABU05242
AC ABU05
XX
DT 29-J7
XX
DE Humar
XX
Trant
KW Trent
KW Prott
KW recet
KW readjoi
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                                                                                                                                                                                                                                                                                                                                      Best Loc
Matches
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21-JAN-2000; 2000US-00488725.
25-APR-2000; 2000US-00552317.
20-JUN-2000; 2000US-00598042.
19-JUL-2000; 2000US-00620312.
03-AUG-2000; 2000US-0062191.
14-SEP-2000; 2000US-00662191.
19-OCT-2000; 2000US-00693036.
29-NOV-2000; 2000US-00727344.
                                                                                                                                                                                                                                                                                                                                                                       immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activity chemotactic/chemokenetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form
Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Tang
Wang
                                                                                                                                                                                                                                                                                                                                    Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Novel nucleic acids and polypeptides, useful as central nervous system injuries.
                                                                                                  29-JAN-2003
                                                                                                                                                      ABU05242 standard;
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                                                                                                                                                                                                                                                                                             Local
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                                                                                                                                                                                                                        136
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                                                                                                                                                                                                                                                    1 TLILDVPPGV 10
                                                                                                                                                                                                                                                                               l Similarity
10; Conserv
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Wang Z,
                                                                                                                                                                                                                          TLILDVPPGV 145
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    SEQ ID NO 5979; 10078pp; English.
                                                                                                                                                                                                                                                                                Conservative
                                                                                                                                                                                                                                                                                                                                                              printed specification
                                                                                                (first entry)
                                                                                                                                                                                                                                                                                                                                    Ä,
                                                                   protein tag
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Wehrman T,
                                                                                                                                                      protein; 1149
                                                                                                                                                                                                                                                                                          100.0%;
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Xu C,
IC RT;
                                                                      (EPT) #1908
                                                                                                                                                                                                                                                                                            Score 51;
Pred. No.
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Xue
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Yang Y,
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Zhang
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                                         phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wang D;
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RESULT 18
ADR39747
ID ADR39
XX ADR39
XC ADR39
XX IB-NC
XX IB-NC
XX Human
XX human
XX Antia
KW Antia
KW cerek
KW chyrc
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                                                                                                                                                                                                                                                                                                                                                                                                                fragment of a kinase, phosphatase, protease inhibitor, creaming transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for trapping cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypurcleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed separation but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                               Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
human; kinase and phosphatase protein; KPP; enzyme; cytostatic; antiarteriosclerotic; anticrovulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; anti-HIAmmatory; thyromimetic; gene therapy; cell proliferative disorder; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Chicz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor polypeptide is useful as an immunogenic composition for eliciting in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                       18-NOV-2004
                                                                                                                                                                                         ADR39747 standard;
                                                                                                                                                                                                                                                                                                                                                                                                               Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-040607/03.
                                                                                       Human
                                                                                                                                                       ADR39747;
                                                                                                                                                                                                                                                                                                                                                                                                                                                 ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            treating cancer, e.g. colon cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (ZYCO-)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia
                                                                                                                                                                                                                                                                             136 TLILDVPPGV 145
                                                                                                                                                                                                                                                                                                                                             10;
                                                                                                                                                                                                                                                                                                           1 TLILDVPPGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              <u>ب</u>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ZYCOS INC.
                                                                                                                                                                                                                                                                                                                                                               Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tomlinson
                                                                                                                                                                                                                                                                                                                                               Conservative
                                                                                       and
                                                                                                                     (first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                Æ,
                                                                                   phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NO 1908; 134pp; English
                                                                                                                                                                                       protein; 1192 AA
                                                                                                                                                                                                                                                                                                             10
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                                                                                                                                                                                                                                                                                                                                                             .0%;
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                                                                                                                                                                                                                                                                                                                                             0;
                                                                                                                                                                                                                                                                                                                                             Score 51; DE
Pred. No. 6.5
0; Mismatches
                                                                                     KPP-20
                                                                                   protein
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              gastric
                                                                                                                                                                                                                                                                                                                                                             6.5;
                                                                                     SEQ
                                                                                                                                                                                                                                                                                                                                                                               6
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                                                                                                                                                                                                                                                                                                                                                                             Length 1149;
                                                                                       NO:20
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RESULT 19
ADQ39378
ID ADQ39
XX
AC ADQ39
XX
AC ADQ39
XX
DT 18-NC
XX
DE Human
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                                                                                                                                                                                                                                                                                                                  The present sequence represents the human kinase and phosphatase protein (KRP), designated KRP-20. The human KPP sequences from the present cinvention have cytostatic, antiarteriosclerotic, anticonvulsant, cantinflammatory and thyromimetic activities, and can be used in gene therapy. The human KPP proteins and polymucleotides can be used in citagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. AIDS, callergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) conference of KPP, The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polymectaectide and compounds continationally bind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                   Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-0458844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
             Human myocardial infarction-associated
                                                                                                                                                                                                                                                                                             Sequence 1192
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                          18-NOV-2004 (first entry)
                                                                                                   ADQ39378 standard; protein; 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ramkumar J, Marquis
Becha SD, Lee SY, F
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                02-SEP-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            WO2004074453-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                atherosclerosis; neurological disorder; epilepsy; Huntington's disease;
stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Jackson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (INCY-) INCYTE CORP
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  developmental disorder; Hypothyroidism;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-635568/61.
                                                                                                                                                                            180
                                                                                                                                                                                                                                   10;
                                                                                                                                                                                                      1 TLILDVPPGV 10
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                                                                                                                                                                                                                                                  Similarity
                                                                                                                                                                            TLILDVPPGV 189
                                                                                                                                                                                                                                    Conservative
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                                                                                                                                                                                                                                                                                             Ä,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NO 20;
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Hafalia AJA, Richardson TW, Khare
I, Gorvad AE;
                                                                                                                                                                                                                                                 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       299pp; English.
                                                                                                                                                                                                                                   0;
                                                                                                                                                                                                                                                  Score 51;
Pred. No.
                                                                                                                                                                                                                                      Mismatches
             gene
                                                                                                                                                                                                                                                    6.7;
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                                                                                                                                                                                                                                                                DB 8;
             derived
                                                                                                                                                                                                                                   0,
                                                                                                                                                                                                                                                              Length 1192;
                                                                                                                                                                                                                                    Indels
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             protein,
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                                                                                                                                                                                                                                   0;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  infection;
             SEQ
                                                                                                                                                                                                                                   Gaps
               ij
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RESULT 20
ADM67187
ID ADM67
XX
AC ADM67

ADM67187 standard; protein; 1256 AA.

ADM67187;

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CC The invention relates to a novel method for identifying an individual who CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleotide sequences given in the specification in the individual's continuous nucleotides where one of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least configuous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequence given in the specification; an isolated polypeptide comprising an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in C1 length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and can encount and the specification. The novel detection method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has an increased or the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from CC an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                Query Match
Best Local Similarity
Matches 10; Conserv
                                                                                                                                                                                                                                                                            Sequence 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Myocardial infarction; detection; single nucleotide polymorphism; SNP; cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Claim 10; SEQ ID NO 1041; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cargill
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WO2004058052-A2
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2004-533949/51.
207
   TLILDVPPGV
                                                            TLILDVPPGV
                                                                                                                                    Conservative
                                                                                                                                                                                                                                                                            Ä
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                                                                                                                                                                    100.0%;
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                                                                                                                                       0
                                                                                                                                                                Score 51;
Pred. No.
                                                                                                                                       Mismatches
                                                                                                                                                                    6.9;
                                                                                                                                                                                                    8;
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                                                                                                                                                                                                    Length 1219;
                                                                                                                                    0,
                                                                                                                                    Gaps
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RESULT 21
ADP12966
ID ADP12
XX
AC ADP12
XX
DT 12-AL
XX
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                                                                                                                                                                                                                                                                                                           This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and thypotensive activities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                         Query Match
Best Local :
                                                                                                                                                                                                                                           Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
                 12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29~JUL-2002; 2002US-0398785P.
12-JUN-2003; 2003US-0478206P.
                                                 ADP12966;
                                                                                   ADP12966
                                                                                                                                                                                                                                                                                                           Sequence 1256
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; SEQ ID NO 541; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   29-JUL-2003; 2003WO-US023684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-FEB-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WO2004011618-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human; adipocyte specific; adipose tissue; anti-obesity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human adipocyte specific PTPase receptor type C protein SeqID 541.
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                                                                                                                                                                       244
                                                                                                                                                                                           1 TLILDVPPGV 10
                                                                                                                                                                                                                                       10;
                                                                                                                                                                                                                                                         Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 HMGENE INC
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                                                                                                                                                                     TLILDVPPGV 253
                                                                                  standard;
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                                                                                                                                                                                                                                      100.0%; ilarity 100.0%; Conservative 0
                 (first entry)
                                                                                                                                                                                                                                                                                                           AA;
                                                                                protein; 1256 AA.
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                                                                                                                                                                                                                                       0
                                                                                                                                                                                                                                                       Score 51;
Pred. No.
                                                                                                                                                                                                                                       Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sayed AMD;
                                                                                                                                                                                                                                                                      DB 8;
                                                                                                                                                                                                                                       <u>,,</u>
                                                                                                                                                                                                                                                                      Length 1256;
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RESULT 22
ADQ39376
ID ADQ39
XX ADQ39
XX ADQ39
XX ADQ39
XX ADQ39
XX Humar
XX Myoca
KW Myoca
KW Myoca
KW Myoca
KW Myoca
XX Homo
OS Homo
XX XX
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                                                                                                                                                                                                                                                                                                                                                                                                                               Best Loca
Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, xenotransplant rejection or mechanical organ replacement rejection, in a individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lungs, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered expression in renal transplantation and expression.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-APR-2002; 2002US-00131831.
20-DEC-2002; 2002US-00325899.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    transplant rejection; immune system; rheumatoid arthritis; lupus; inflammatory bowel disease; multiple sclerosis; HIV; AIDS.
                                                                        cardiant; gene therapy;
                                                                                          Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                        Human myocardial infarction-associated gene derived protein,
                                                                                                                                                        18-NOV-2004 (first entry)
                                                                                                                                                                                                                       ADQ39376 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Claim 65; SEQ ID NO 2975; 1762pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Wohlgemuth J, Rosenberg S;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           24-APR-2003; 2003WO-US012946
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          21-MAY-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Protein encoding referenece mRNA sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (EXPR-) EXPRESSION DIAGNOSTICS INC
                                                                                                                                                                                                                                                                                                                                                                                Local
                                                                                                                                                                                                                                                                                                    244
                                                                                                                                                                                                                                                                                                                                                                10; Conserv
                                                                                                                                                                                                                                                                                                                 1 TLILDVPPGV 10
                                                                                                                                                                                                                                                                                                                                                                 Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Fry K,
                                                                                                                                                                                                                     protein; 1258 AA
                                                                                                                                                                                                                                                                                                                                                                             100.0%;
                                                                                                                                                                                                                                                                                                    253
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Woodward R,
                                                                            human.
                                                                                                                                                                                                                                                                                                                                                                0
                                                                                                                                                                                                                                                                                                                                                                Score 51; DB
Pred. No. 7.1
0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Ly N,
                                                                                                                                                                                                                                                                                                                                                                               7.1;
                                                                                                                                                                                                                                                                                                                                                                                               80
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    #51
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                                                                                                                                                                                                                                                                                                                                                                 0
                                                                                                                                                                                                                                                                                                                                                                                               Length 1256;
                                                                                                                                                                                                                                                                                                                                                                 Indels
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Morris M;
                                                                                                                                                                                                                                                                                                                                                                0,
                                                                                                                            SEQ ID 1039.
                                                                                                                                                                                                                                                                                                                                                                Gaps
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WO2004058052-A2 Homo sapiens

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RESULT 23
ADQ39379
ID ADQ39
XX
XX
AC ADQ39
XT 18-NC
XX
DT 18-NC
XX
WYOCZ
KW MYOCZ
KW MYOCZ
                                                                                                                                                                                                                                                                                              밁
                                                                                                                                                                                                                                                                                                                                  5
                                                                                                                                                                                                                                                                                                                                                                                                                                                             CC further comprises: "Foundation mucleic acid molecule comprising at least CR 8 contiguous nuclectides where one of the nuclectides is an SNP given in the specification or its complement and encoding any one of the amino CR acid sequences given in the specification; an isolated polypeptide CR comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding CR fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the CR polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting or preventing CR method for identifying an agent useful in treating or preventing CR myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CR method is useful in identifying an individual who has an increased or CR composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from CR an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                 Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                Matches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      has an altered risk for developing myocardial infarction. The method comprises detecting a single nuclectide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-04531159.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                            Human myocardial infarction-associated gene derived protein, SEQ ID 1042
                                                                                                         18-NOV-2004
                                                                                                                                                                                      ADQ39379 standard; protein; 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Sequence 1258 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-JUL-2004
  cardiant; gene therapy; human.
                     Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Claim 10; SEQ ID NO 1039; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (APPL-) APPLERA CORP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                22-DEC-2003; 2003WO-US040978.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            2004-533949/51.
DB; ADQ38548.
                                                                                                                                                                                                                                                                                              246
                                                                                                                                                                                                                                                                                                                                                                             10;
                                                                                                                                                                                                                                                                                                                                     1 TLILDVPPGV 10
                                                                                                                                                                                                                                                                                                                                                                                                 Similarity
                                                                                                                                                                                                                                                                                              TLILDVPPGV 255
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Devlin JJ,
                                                                                                                                                                                                                                                                                                                                                                                Conservative
                                                                                                       (first entry)
                                                                                                                                                                                                                                                                                                                                                                                               100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Iakoubova 0;
                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                               Score 51; DB Pred. No. 7.1;
                                                                                                                                                                                                                                                                                                                                                                                Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                    DB 8;
                                                                                                                                                                                                                                                                                                                                                                             0
                                                                                                                                                                                                                                                                                                                                                                                                                    Length 1258;
                                                                                                                                                                                                                                                                                                                                                                                Indels
                                                                                                                                                                                                                                                                                                                                                                           0
                                                                                                                                                                                                                                                                                                                                                                             Gaps
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RESULT 24 ABU05243

맑

255

TLILDVPPGV 264

0

S X F

ABU05243;

ABU05243 standard;

protein; 1304 AA

29-JAN-2003

(first entry)

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                                                                                                                                                                                                                                 comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polymucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This
                                                  Matches
                                                                                      Query Match
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   nucleic acids, where the presence of the SNP 18 correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide
                                                                                                                                    Sequence 1267
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         has an altered risk for developing myocardial infarction. The method comprises detecting a single nuclecting polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             N-PSDB; ADQ38551.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Cargill M,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 20-DEC-2002; 2002US-0434778P
10-MAR-2003; 2003US-045313P-
30-APR-2003; 2003US-0466412P-
23-SEP-2003; 2003US-0504955P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        15-JUL-2004.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   WO2004058052-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    The invention relates to a novel method for identifying an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10; SEQ ID NO 1042;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          22-DEC-2003; 2003WO-US040978
                                                                                                                                                                                                 sequence was not shown
                                                                                                                                                                                                                          associated
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (APPL-) APPLERA CORP
                                                                    Local Similarity
                                           10;
  1 TLILDVPPGV 10
                                                                                                                                                                        gene containing one or more SNP's of the invention. Note: The as not shown in the specification. The sequence has come from nic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Devlin JJ,
                                                  Conservative
                                                                                                                                    A
                                             100.0%; Score 51; DB: 100.0%; Pred. No. 7.2; tive 0; Mismatches
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Iakoubova
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           145pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             English.
                                                                                      8; Length 1267;
                                               0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             polymorphism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    individual who
                                               <u>.</u>.
                                                  Gaps
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RESULT 25
ABU05241
ID ABU05
XX
AC ABU05
XX
DT 29-JA
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                                                                                                                                                                                                                                                                             The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor. The Crayment of a kinase, phosphatase, protease inhibitor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide. Is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class I MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational CC profiling. Note: This sequence does not appear in the printed profiling in the was obtained in electronic format directly from WIPO at the process of the complex of the printed process of the printed printed process of the printed process of the printed printed process of the printed process of the printed pr
                                                                                                                                                                                                             Matches
                                                                                                                                                                                                                               Best
                                                                                                                                                                                                                                           Query Match
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; myeloma; colon cancer; gastric cancer; mistocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
   29-JAN-2003
                                 ABU05241;
                                                              ABU05241 standard; protein; 1304 AA
                                                                                                                                                                                                                                                                             Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human expressed protein tag (EPT) #1909.
                                                                                                                                                                                                             Local Similarity nes 10; Conserv
                                                                                                                                              292
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        RM.
                                                                                                                                                                            μ.
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                                                                                                                                              TLILDVPPGV 301
                                                                                                                                                                            TLILDVPPGV 10
                                                                                                                                                                                                                                                                                                          .int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 1909; 134pp; English
                                                                                                                                                                                                             Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; 2001US-0279495P.
; 2001US-029244P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
(first entry)
                                                                                                                                                                                                                                                                           ΑĄ,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    sarcoma; melanoma; lymphoma; leukaemia
                                                                                                                                                                                                                          100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ł,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Urban
                                                                                                                                                                                                             0
                                                                                                                                                                                                                          Score 51; DB Pred. No. 7.4;
                                                                                                                                                                                                             Mismatches
                                                                                                                                                                                                                                         6
                                                                                                                                                                                                             0
                                                                                                                                                                                                                                         Length 1304;
                                                                                                                                                                                                           0,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         or,
                                                                                                                                                                                                             0
RESULT 26
ABU05244
ID ABU0
XX
AC ABU0
XX
AC ABU0
XX
AC ABU0
XX
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The invention describes a purified polypeptide, which comprises a configuration of a kinase, photease, protease, protease inhibitor. The protein cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a command an immunogenic response directed against any of the purified polypeptide, is useful for treating cancer. The polypeptide is also composition for eliciting in a polypeptide, is useful for treating cancer. The polypeptide is also composition for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptide and color cancer, gastric cancer, adenocarcinoma, melanoma, myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, colon cancer, in the gastric cancer, adenocarcinoma, sarcoma, melanoma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, colon cancer, in the sequence represents an capping the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                  Query Match
Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                28-MAR-2001; 2001US-0279495P.
21-MAY-2001; 2001US-0392544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Sequence 1304
ABU05244;
                                                            ABU05244 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Example
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      28-MAR-2002; 2002WO-US009671
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-040607/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (ZYCO-) ZYCOS INC.
                                                                                                                                                                                                                        292 TLILDVPPGV 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          expressed protein tag
                                                                                                                                                                                                                                                                                                                                                        10;
                                                                                                                                                                                                                                                                                 ш
                                                                                                                                                                                                                                                                                                                                                                                       Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             2
                                                                                                                                                                                                                                                                                     TLILDVPPGV
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Tomlinson
                                                                                                                                                                                                                                                                                                                                                        Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sarcoma; melanoma; lymphoma; leukaemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             NO 1907; 134pp; English
                                                         protein; 1304 AA
                                                                                                                                                                                                                                                                                        10
                                                                                                                                                                                                                                                                                                                                                                                   100.0%;
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                                                                                                                                                                                                                                                                                                                                                     0,
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                                                                                                                                                                                                                                                                                                                                                  Score 51; DB
Pred. No. 7.4;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                              Length 1304;
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                                                                                                                                                                                                                                                                                                                                                     Gaps
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29-JAN-2003

(first entry)

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RESULT 27
SAXE
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                                                                                                                                                                                                                                                                                     Query Match
Best Local
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21-MAY-2001; 2001US-029544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                              fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profifing. Note: This sequence does not appear in the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MMC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
06-MAY-2004
                                 ADL16230;
                                                                                                                                                                                                                                                                                   Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human expressed
                                                              ADL16230 standard; protein; 1304 AA.
                                                                                                                                                                                                                                                                                                                 specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2003-040607/03
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               adenocarcinoma;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           (ZYCO-) ZYCOS INC.
                                                                                                                                                    292
                                                                                                                                                                     1 TLILDVPPGV 10
                                                                                                                                                                                                                   10;
                                                                                                                                                                                                                                    Similarity
                                                                                                                                                  TLILDVPPGV 301
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       SEQ ID NO 1910; 134pp; English
                                                                                                                                                                                                                    Conservative
(first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      describes a purified polypeptide, which comprises a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               protein tag (EPT) #1910.
                                                                                                                                                                                                                                  100.0%;
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                                                                                                                                                                                                                                  Score 51; DB 6;
Pred. No. 7.4;
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                                                                                                                                                                                                                   Mismatches
                                                                                                                                                                                                                 0;
                                                                                                                                                                                                                                                Length 1304;
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<u>,</u>

Human protein tyrosine phosphatase, receptor type, C, isoform 1.

12-AUG-2004

(first entry)

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ADP65158
ID
SXSXEXE
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (1) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); medicine, for treating abnormal cell proliferation or growth (cancer);
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     medicine, for treating abnormal cert protections, for treating abnormal cert protections allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein tyrosine phosphatase; reversible oxidation; dephosphorylation;
inducible signalling pathway; cell proliferation; cancer;
guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                  ADP65158 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Sequence 1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  screening
cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Tonks NK,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               13-FEB-2003; 2003WO-EP001446.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cell-cycle abnormality; enzyme.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Human protein tyrosine phosphatase #26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     (COLD-) COLD SPRING HARBOR LAB
                                                                                                                                                                                                                                                                                                                292 TLILDVPPGV 301
                                                                                                                                                                                                                                                                                                                                                   1 TLILDVPPGV
                                                                                                                                                                                                                                                                                                                                                                                                                             10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                       Similarity
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                                                                                                                                                                                                                                                                                                                                                                                                              100.0%; Score 51; DB nilarity 100.0%; Pred. No. 7.4; Conservative 0; Mismatchae
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A
                                                                                                                                                                  protein; 1304 AA
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                               7; Length 1304;
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                                                                                                                                                                                                                                                                                                                                                                                                                             Indels
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RESULT 29
ADM67209
ID ADM67
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                                                                                                                                                                                                                                                                                    The invention relates to a novel method for diagnosing and analysing CC autoimmune disease or arthritides. The method comprises obtaining a CC patient sample containing mRNA, analysing gene expression using the mRNA CC that results in a gene expression signature of the mRNA, and using that CC gene expression signature to diagnose or analyse the autoimmune disease CC or arthritides in the patient, where gene expression of at least 60% of CC the genes correlates with that of the gene signature. The invention CC further comprises: a treatment of rheumatoid arthritis; identification of CC genes for targeting in the treatment of rheumatoid arthritis in a mammal; an CC array or gene chip, specific for rheumatoid arthritis; an amammal; an CC array or gene chip, specific for rheumatoid arthritis; screening the efficacy of a candidate drug in vitro for the treatment of collagen-cc induced arthritis; and reducing the symptoms associated with collagen-cc antigout, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention have the following cativities: immunosuppressive, antirheumatic, antiarthritides, such as CC immune disease caused by an infectious agent. This sequence represents a CC inducence relating to the genes used in the analysis and treatment of collagen-cc relating to the genes used in the analysis and treatment of collagens or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from CC MIPO.
                                                                                                                                                                    Matches
                                                                                                                                                                                   Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumatic; antiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; ribrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
ADM67209 standard;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia
                                                                                                                                                                                                                                         Sequence 1304 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-OCT-2001; 2001US-0336220P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT.
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                                                                                          292
                                                                                                              1 TLILDVPPGV 10
                                                                                                                                                                    10;
                                                                                                                                                                                   Similarity
                                                                                          TLILDVPPGV 301
                                                                                                                                                                    Conservative
                                                                                                                                                                                   100
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                                                                                                                                                                                   . 0%
                                                                                                                                                                    0,
                                                                                                                                                                                   Score 51;
Pred. No.
                                                                                                                                                                    Mismatches
                                                                                                                                                                                                        DB
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protein; 1304 AA

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ABO84455
ID ABO8
XX
AC ABO8
XX
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                                                                                                                                                                                                                                                                      RESULT 30
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Best Local
                                                                                                                                                                                                      Matches
                                                                                                                                                                                                                                                                                                                  invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-
cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissumice of different genotypes.
                 AB084455
                                                                                                                                                                                                                                                                      Sequence 1304 AA;
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N-PSDB; ADM66930.
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12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; leukocyte common antigen.
                                                 ABO84455 standard;
                                                                                                                                                                                                                                                                                                      a murine adipocyte specific protein sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 563; 91pp; English
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                                                                                                                                       292
                                                                                                                                                                                                      10;
                                                                                                                                                                     1 TLILDVPPGV 10
                                                                                                                                                                                                                      Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chouinard
                                                                                                                                                                                                      Conservative
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                                                 protein; 1304 AA
                                                                                                                                     30
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                                                                                                                                                                                                                      . 0% :
                                                                                                                                                                                                      0;
                                                                                                                                                                                                     Score 51; DB
Pred. No. 7.4
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            common antigen protein SeqID
                                                                                                                                                                                                                                      В
                                                                                                                                                                                                                                    8
                                                                                                                                                                                                                                                                                                       of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  stromal vascular tissue
                                                                                                                                                                                                      0,
                                                                                                                                                                                                                                    Length 1304;
                                                                                                                                                                                                                                                                                                         invention
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ob; diabetes;
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                                                                                                                                                                                                      Gaps
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or

0;

18-NOV-2004 (first entry)

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Contiguous mucleotides of any of the 233 polymucleotide sequences given continued are are an expression vector comprising the above associated proteins. Also included are an expression vector comprising the isolated mucleic acid cited above, a host cell comprising the above crecombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the above comprising at least 10 contiguous nucleotides of any of the store comprising the above complement), an isolated antibody, it is antigen binding fragment that binds to the above polypeptide, a hybridoma that produces the above complement, an isolated antibody. (or its antigen binding fragment) that compositional antibody a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer conditional, a method for inhibiting growth of cancer cells in an cell individual, a method for delivering a therapeutic agent to cancer conditional antividual, a nelectronic library comprising the above polypeptide (or their fragments), methods of screening conditions and individual, an electronic library comprising the above or anticancer activity or for a bioactive agent capable of modulating the associated with expression of a polypeptide in a test cell sample, a complement of the expression of a modulating the expression of complements and amethod for activity of a CA protein (CAP), methods for detecting, diagnosing, preventing and treating cancers, especially lymphoma and conditions are useful for detecting.

CC agent in a cell. The composition and methods are useful for detecting, diagnosing, preventing and treating cancers, especially lymphoma and conditions are conditions. These may also be used in screening for agents that modulate especially probables ar
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   14-FEB-2003; 2003US-00367094.
14-MAR-2003; 2003US-00388838.
15-APR-2003; 2003US-00417375.
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Sequence 1304
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15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
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lymphoma; CAP.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human cancer-associated protein HP13-011.2.
                                                                                          ftp.wipo.int/pub/published_pct_sequences
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Query Match Best Local S Matches 10

Local Similarity les 10; Conserv

100.0%; ilarity 100.0%; Conservative 0

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Score 51; DB 8; Length 1304; Pred. No. 7.4; Mismatches 0; Indels

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                                                                    CC has an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of CC the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least CC 8 contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody CC that specificatly binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC specification and which is between about 16 and 1000 nucleotides in CC nucleic acid molecule; a method of detecting a variant polypeptide; and a CC nucleic acid molecule; a method of detecting a variant polypeptide; and a CC nucleic acid molecule; a method of detecting are preventing CC method is useful in identifying an individual who has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or CC composition for treating or preventing myocardial infarction. Note: This sequence represents the protein of a human myocardial infarction. Note: This
             associated gene containing one or more SNP's of the invention. Note: The sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10; SEQ ID NO 1043; 145pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               22-DEC-2003; 2003WO-US040978.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           relates to a novel
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       method for identifying an individual who
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Sequence 1304 AA,

Query Match Best Local : Matches 1

10;

Conservative

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Mismatches

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Gaps

0;

Similarity

100.0%; Score 51; DB (100.0%; Pred. No. 7.4;

DB 8; Length 1304; 7.4; es 0; Indels

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The invention relates to a novel method for identifying an individual who CC comprises detecting a single nucleotide polymorphism (SNP) in any one of CC the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC altered risk for myocardial infarction in the individual's CC acid sequences given in its pecification in the individual's CC acid sequences given in the specification; an isolated nucleotides is an SNP given in CC comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polymptide or its antigen-binding CC fragment; an amplified polymucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC length; a kit for detecting an SNP in a nucleic acid molecule; a method of detecting are SNP in a nucleic acid molecule; a method of detecting are snew in a nucleic acid molecule; a method of detecting are snew in a nucleic acid molecule; and an enzyme; a method of detecting an SNP in a nucleic acid infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This
          RESULT 32
ADQ39375
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10; SEQ ID NO 1038; 145pp; English.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Myocardial infarction; detection; single nucleotide polymorphism; SNP, cardiant; gene therapy; human.
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                                                                                                                                                                                            sequence represents the protein of a human myocardial infarction-
associated gene containing one or more SNP's of the invention. Note
sequence was not shown in the specification. The sequence has come
an electronic sequence listing downloaded from the WIPO website.
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                                                     294 TLILDVPPGV 303
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	80	7	6	ហ	4	ω	2		Result No.
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Abu05243 Human exp	Human	Adq39376 Human myo			Adq39378 Human myo		Abu05242 Human exp	-	Adq18845 Human sof	Human	Abu05245 Human exp	Abu05240 Human exp	Human			Aam39262 Human pol		Aam23689 Human EST	Abu07335 Human exp			Aar26823 Cell adhe	Abg31980 Human CD4	3	Description

XX The invention discloses a peptide comprising the human leukocyte anti- CC (HLA)-binding peptide of human CD45 polypeptide, its portion or varia CC provided that the peptide is not the intact human CD45 polypeptide. T CC peptides are useful for producing activated cytotoxic T lymphocyte (C CC in vitro which involves contacting the CTL with an antigen-presenting CC cell, where its major histocompatibility complex (MHC) class I molecul CC are loaded with the peptide, to activate, in an antigen specific mann CC where the CTL and the antigen presenting cell are allogenic with resp CC to the class I MHC molecule that is presenting peptides of CD45. The	vel peptide comprising leukocyte antigen binding polypeptide, useful for producing activated cytotoxilling cancerous cells e.g. leukemia.	auss HJ, Amroli	PR 30-NOV-2000; 2000WO-GB004566. XX PA (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD.	PF 30-NOV-2000; 2000WO-GB004566.	XX PD 06-JUN-2002. XX	OS Homo sapiens. XX PN WOO00244207-A1	mman; CD45; human leukocyte antigen; HLA; cytotox titigen.presenting cell; APC; major histocompatibitigen; allogenic; T cell receptor; TCR; cancer; logenic stem cell transplantation; CFU-GM; leukablony forming unit-granulocyte macrophage; immuno tematopoietic; malignant.	DB Human CD45 HLA-binding peptide, huCD45/293.	XX DT 05-NOV-2002 (first entry) XX	AC ABG31979;	RESULT 1 ABG31979 standard; peptide; 9 AA.	ALIGNMENTS	26 46 100.0 1304 6 ABU05241 27 46 100.0 1304 7 ADL5230 28 46 100.0 1304 7 ADL5230 29 46 100.0 1304 7 ADP65158 30 46 100.0 1304 8 ADM67209 31 46 100.0 1304 8 ADM67209 32 46 100.0 1304 8 ADQ33375 33 46 100.0 1306 8 ADQ33375 34 41 89.1 140 6 ABM56242 36 39 84.8 354 6 ABM73414 37 80.4 282 5 AAM50930 48 82.6 243 4 ABS6190 49 38 82.6 257 6 ABU3B69 40 38 82.6 257 6 ABU3B69 41 37 80.4 266 3 AAG46634 43 37 80.4 266 3 AAG46634 44 37 80.4 282 5 AAM50930
ng the human leukocyte antigen ptide, its portion or variant, t human CD45 polypeptide. The d cytotoxic T lymphocyte (CTL) with an antigen-presenting omplex (MHC) class I molecules in an antigen specific manner, ell are allogenic with respect ting peptides of CD45. The	peptide of human CD45 lc T lymphocytes, for						ic T lymphocyte; CTL; lity complex; MHC; tumour; emia; therapeutic;						Abu05241 Human exp Abu05244 Human exp Adl16230 Human pro Adp65158 Human adi Abu68455 Human adi Abu68455 Human adi Abu68455 Human myo Adq39380 Human myo Adq39375 Human myo Aau59723 Propionib Abm73414 Staphyloc Abr62803 Methicill Abr62803 Methicill Abu661639 Putative Abu61639 Flebsiell Adu47276 Thermococ Aag48634 Arabidops Aag98634 Arabidops Aag98777 Arabidops Aag90300 Arabidops

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Best Local :
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The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytotoxic T lymphocyte (CTL)
                                                                                                                                                                               Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; CD45; human leukocyte antigen; HIA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen; allogenic; T cell receptor; TCR; cancer; tumour; allogenic; T cell transplantation; CFU-GM; leukaemia;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human CD45 HLA-binding peptide, huCD45/292.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     05-NOV-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ABG31980;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ABG31980 standard;
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                                                                                                                               Claim 2;
                                                                                                                                                                                                                                                                                                                                        Stauss HJ,
                                                                                                                                                                                                                                                                                                                                                                                                                                          30-NOV-2000; 2000WO-GB004566.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          30-NOV-2000; 2000WO-GB004566
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               06-JUN-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Homo
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Sequence 9 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     comprising an HLA-binding peptide of human CD45
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200244207-A1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    haematopoietic; malignant.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            colony forming unit-granulocyte macrophage;
                                                                                                                                                                                                                                                                                                                                                                                           (IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 sapiens.
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                                                                                                                            Page 38; 56pp;
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                                                                                                                                                                                                                                                                                                                                        Amrolia
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                                                                                                                               English
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Mismatches
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ches 0;
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Disclosure; Page 4; 23pp; English

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RESULT 3
AAR26823
X R X P P P X X X
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             cc in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, combined the contains of the class I molecule that is presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The contigen-presenting cell contains an expression vector including the collective contains an expression vector including the collective for killing, and in the manufacture of a medicament for, target cells contains an expression vector including the collective contains an expression vector including the collective for killing, and in the manufacture of a medicament for, target cells comparising the CD45 peptides. A T cell receptor (TCR), comparising cells expressing the CD45 peptides, is useful for killing target cells (cancer cells) in a patient. A T cell receptor (TCR), comparising cells expressing the CD45 peptides, is useful for killing collective colls that the polynucleotide encoding the TCR and then introducing the cells thus produced into the patient who has undergone an allogenic stem cell transplantation. Tumour reactive comparising an allogenic stem cell transplantation. Tumour reactive collypeptide. The ender is leukaemia which expresses the CD45 polypeptide. The advantage this method provides is that the CTLs destroy the malignant haematopoietic cells but not the crush comprising an HHA-binding peptide of human CD45 comprising an HHA-binding peptide of human CD45
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Query Match
Best Local
                                                New cell adhesion (poly)peptide(s) modifying cell adhesive properties useful in treating inflammatory conditions e.g. rheumatoid arthritis, asthma, inflammatory bowel disease, sepsis, etc.
                                                                                                                                                                                                                                        07-FEB-1991;
08-FEB-1991;
                                                                                                                                                                                                                                                                                                                               20-AUG-1992.
                                                                                                                                                                                                                                                                                                                                                                     WO9213887-A1
                                                                                                                                                                                                                                                                                                                                                                                                      Synthetic
                                                                                                                                                                                                                                                                                                                                                                                                                                                              MOLT-4; human; lymphoblastic leukaemia; A375-SM; metastatic; melanoma; H1080; fibrosarcoma; LDV; LDL; IDA; inflammatory disease;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Cell adhesion
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 10 AA;
                                                                                                                         WPI; 1992-299988/36
                                                                                                                                                             Humphries MJ
                                                                                                                                                                                                                                                                                              06-FEB-1992;
                                                                                                                                                                                                                                                                                                                                                                                                                                              rheumatoid arthritis; asthma; sepsis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            09-FEB-1993
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                                                                                                                                                                                                    (UYMA-) UNIV VICTORIA MANCHESTER.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (revised)
(first entry)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    polypeptide
                                                                                                                                                                                                                                        91GB-00002655.
91GB-00002818.
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Pred. No. 0.29;
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                                                                                                                                                                                                                                                                                                                                                                                                                                             graft rejection;
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Query Match
Best Local
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             The peptide is an example of a cell adhesion polypeptide contg. the amino sequence x-Asp-Y-(A)n-Phe, where X and Y = Ala, Leu, Ile or Val, A= any amino acid and n= 3-10. At least a subsequence of the polypeptide is adherent for MOLT-4 human lymphoblastic leukaemia, A375-SM human metastatic melanoma or H1080 human fibrosarcoma cells. The cell adhesion peptides are used to modify or control the adhesive properties of cells, e.g. in treatment of inflammatory conditions such as rheumatoid earth; is, asthma, sepsis, graft rejection, inflammatory bowel disease,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       The peptide is an example of a cell adhesion polypeptide contg. the amino sequence X-Asp-Y-(A)n-Phe, where X and Y = Ala, Leu, Ile or Val, A= any amino acid and n= 3-10. At least a subsequence of the polypeptide is adherent for MOLT-4 human lymphoblastic leukaemia, A375-SM human metastatic melanoma or H1080 human fibrosarcoma cells. The cell adhesion peptides are used to modify or control the adhesive properties of cells, e.g. in treatment of inflammatory conditions such as rheumatoid arthritis, asthma, sepsis, graft rejection, inflammatory bowel disease, reperfusion of cardiac tissue after myocardial infarction, and coagulatory disorders. They are selective antagonists of cell adhesion, e.g. they promote adhesion of the speccified cells but inhibit adhesion to the natural adhesion protein contg. the adhesive sequence. See also AAR26821-30 and AAR30887-903. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MOLT-4; human; lymphoblastic leukaemia; A375-SM; metastatic; melanoma; H1080; fibrosarcoma; LDV; LDL; IDA; inflammatory disease; rheumatoid arthritis; asthma; sepsis; graft rejection; reperfusion.
                                                                                                                                                                                                                                             New cell adhesion (poly)peptide(s) modifying cell adhesive properties useful in treating inflammatory conditions e.g. rheumatoid arthritis,
                                                                                                                                                                                                                                                                                                                                                                                                                         07-FEB-1991;
08-FEB-1991;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Synthetic.
                                                                                                                                                                                       Disclosure; Page 11; 23pp; English
                                                                                                                                                                                                                                                                                                         WPI; 1992-299988/36
                                                                                                                                                                                                                                                                                                                                                                                     (UYMA-) UNIV VICTORIA MANCHESTER
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9; Conserv
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(first entry)
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91GB-00002818.
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                                                                                                                                                                                                                           bowel disease,
tissue after
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Pred. No.
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                                                                                                                                                                                                                             sepsis,
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0.56;
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RESULT 5
AAW35856
 CC A novel T lymphocyte veto molecule is a chimeric molecule comprising a CC protein, e.g. the present sequence, linked to a targetting polypeptide CC that binds a molecule, which differentiates a host cell from a tissue CC graft cell, or selectively targets a stimulator cell involved in the CC autoimmune response. A veto molecule, in which the protein binds a CC molecule that targets stimulator cells, can be used to suppress an immune CC expense and therefore treat autoimmune diseases, e.g. systemic lupus CC expthematosus, myasthenia gravis, rheumatoid arthritis, insulin dependent CC diabetes mellitus, multiple sclerosis, coeliac disease, autoimmune CC diabetes mellitus, multiple sclerosis, coeliac disease, autoimmune CC allergies and other immunological diseases and rheumatoid carditis, and complete that differentiates graft and host cells, the veto molecule can be used to reduce transplant rejection. The veto molecule provides greefific regulation of particular stimulator cells that can kill graft cells or respond to autoantigens, but leave other stimulator cells can fecting the other. The veto molecule can be administered locally to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 밁
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                                                                                                                                                                                                                                                                                                                                             I lymphocyte veto molecule comprising response cell activating protein linked to molecule that targets stimulator cell marker, used for selective suppression of immune response, e.g. prevention of graft rejection or treatment of auto-immune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            coagulatory disorders. They are selective antagonists of cell adhesion, e.g. they promote adhesion of the specified cells but inhibit adhesion to the natural adhesion protein conty the adhesive sequence. See also AAR26821-30 and AAR30887-903. (Updated on 25-MAR-2003 to correct PN
                                                                                                                                                                                                                                                                                                                Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               10-APR-1996;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO9737687-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Human; CD45; T lymphocyte veto molecule; chimeric molecule;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               (NAJE-) NAT JEWISH CENT IMMUNOLOGY & RESPIRATORY.
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generalised
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                                                                                                                                                                                                                                                                                                              Page
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              rejection.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              polypeptide; suppression; immune response; treatment;
disease; allergy; immunological disorder;
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                                                                                                            The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, reproduce or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypeloma, colon cancer, pastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed that the form them there is the polypeptide of the screening agents for treating the above mentioned diseases. This sequence represents an expressed that the form them there is the polypeptide is also appeared to the above mentioned diseases. This sequence represents an expressed that the form them there is the polypeptide is also appeared to the above mentioned diseases. This sequence represents an expressed the polypeptide is also appeared to the above mentioned diseases.
                          expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           28-MAR-2001; 2001US-0279495P
21-MAY-2001; 2001US-0292544P
08-AUG-2001; 2001US-0310801P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2003-040607/03.
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ftp.wipo.int/pub/published
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2001US-0326370P.
2001US-0336780P.
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                                                                                       cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess biodiversity and for nutritional purposes. The present sequence is a protein of the invention
                                                                                                                                                                                                                                                                                                                 17-JUL-2000;
03-AUG-2000;
15-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                     tomato; monkey; dog; sea urchin; expressed sequence tag; EST; diagnostics; forensic test; gene mapping; genetic disorder; biodiversity;
                                                                           Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Human; sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse; tomato; monkey; dog; sea urchin; expressed sequence tag; EST;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Sequence 553 AA;
                                                                                                                                                                                     Claim 20; Page 875-876; 1275pp;
                                                                                                                                                                                                        Isolated polypeptide for treatment of antibodies and research use.
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; 2000US-00617746.
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RESULT 8
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                                                              Query Match
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Matches 9
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Translational profiling; expressed protein tag; EPT; kinase; phosphatase protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                             Sequence
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ABU07333 standard; protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          2003-040607/03
134 LILDVPPGV 142
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                              1 LILDVPPGV 9
                                                              9;
                                                                               Similarity
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                                                                                                                              641
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                                                              Conservative
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                                                                          100.0%;
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                                                              0
                                                                            Score 46;
Pred. No.
                                                              Mismatches
                                                                                            В
                                                                                           6
                                                              0
                                                                                           Length 641;
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skeletal protein;
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Query Match Best Local S Matches 9

Similarity 9; Conserv

100.0%; ilarity 100.0%; Conservative

0,

Score 46; DB Pred. No. 21;); Mismatches

21; ₽B

0

Indels

<u>,,</u>

Gaps

0

4

Length 664;

Sequence

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The invention relates to human nucleic acids (AAI57798-AAI61369) and the CC encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous containing a polypeptide or polynucleotide of the invention may be used to treat diseases, peripheral neuropathy and collection of the peripheral neuropathy and collection of the peripheral neuropathy and collection of the activities and entral nervous system disease, such as collection of the activities such as Immune system suppression, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and collection collections. Note: The sequence data for this patent did not form the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       RESULT 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         23-DEC-1999;
21-JAN-2000;
25-APR-2000;
25-JUN-2000;
19-JUL-2000;
                                                                                                                                                                                                                                                                                                                                                                              Tang
Wang
                                                                                                                                                                                                                                                                                                                          WPI; 2001-442253/47.
N-PSDB; AAI58418.
                                                                                                                                                                                                                                                                                                                                                                    Zhou
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   peripheral nervous system; neuropathy; central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                Novel nucleic acids and polypeptides, as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                      19-OCT-2000;
29-NOV-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-AUG-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             26-DEC-2000; 2000WO-US034263
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                14-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Homo sapiens
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                                                                                                                                                                                                                                                                                                                                                                 Liu C,
Wang Z,
Goodrich
 664
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2000US-00552317.
2000US-00598042.
2000US-00620312.
2000US-00633450.
2000US-00653450.
2000US-00693036.
2000US-00693036.
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                                                                                                                                                                                                                                                   ID NO 2407; 10078pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 99US-00471275
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Wehrman T,
                                                                                                                                                                                                                                                                                                                                                                   ×
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                                                                                                                                                                                                                                                                                                                                                                    Drmanac
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Xu C,
IC RT;
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Yang Y,
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                                                                                                                                                                                                                                                                                             treating disorders such
                                                                                                                                                                                                                                                                                                                                                                              Ren F, W
Zhang J,
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i, Zhao QA;
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134

LILDVPPGV 142

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134 LILDVPPGV 142

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RESULT 10
ABU07334
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                                                                                                        The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide. Is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational CC profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at CF from interceived the sequence and electronic format directly from WIPO at
                                  Query Match
Best Local S
Matches 9
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336730P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                    Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2;
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                                                                                                                                   .wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                2003-040607/03
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            sapiens.
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                                  Similarity 9; Conserv
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LILDVPPGV
                                                                                                        664
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                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 2035; 134pp;
                                     Conservative
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      entry)
                                                    100.0%; Score 46; 100.0%; Pred. No.
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                                    Mismatches
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                                                                    Length 664;
                                    Indels
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                                Gaps
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RESULT 11
ABU05246
ID ABU05246
ID ABU05246
AC ABU05
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AC FLAIR
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                                                                                   The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease inhibitor, cytoskeletal protein, receptor or transcription factor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide. Is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed CC class I or class II MEC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed profile in the protein tag isolated in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
   Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New polypeptides (e.g. cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WPI; 2003-040607/03.
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01-OCT-2001;
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21-MAY-2001;
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                                                            ftp.wipo.int/pub/published_pct_sequences
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   1114
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ; 2001US-0279495P.
; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
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2002US-0358985P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              colon cancer, gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            kinases, phosphatases, proteases, transporters, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Urban
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              cancer,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              lymphoma or
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Query Match Best Local S Matches S

Similarity 9; Conser

Conservative

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Gaps

0,

100.0%;

Score 46; Pred. No. Mismatches

DB 6,

Length 1114; Indels

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103

LILDVPPGV 111

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103 LILDVPPGV 111

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                                                                                                                                                                The invention describes a purified polypeptide, which comprises a configuration of a kinase, phosphatase, protease, protease inhibitor. The transporter, cytoskeletal protein, receptor or transcription factor. The colypeptide is useful as an immunogenic composition for eliciting in a colypeptide. The purified polypeptide, or the antibody that binds to this colypeptide. The purified polypeptide, or the antibody that binds to this colypeptide is useful for treating cancer. The polypeptide is also cuseful for identifying compounds that binds to a naturally processed class I MHC-binding polypeptide. The polypeptides and colass I or class I MHC-binding polypeptide. The polypeptides and colypucteotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an corposition or leukaemia. These are also useful for screening agents for creating Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  RESULT 12
                                                     Matches
                                                                       Query Match
Best Local
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336730P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                       Sequence 1114 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Example 2; SEQ ID NO 1905; 134pp; English
                                                                                                                                                    ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  28-MAR-2002;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  WO200278524-A2
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1 LILDVPPGV
                                                   Similarity 9; Conserv
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                                                     Conservative
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                                                                     Score 46;
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1 LILDVPPGV

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100.0%; ilarity 100.0%; Conservative (

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Score 46; DB Pred. No. 38; Mismatches

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Length 1143;

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ABU05240
                                                                                                                                             The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease inhibitor, ctransporter, cytoskeletal protein, receptor or transcription factor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide. Is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC class I or class II MHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptides and CC class I or class II mHC-binding polypeptide. The polypeptide is also class II mHC-binding polypeptide. The polypeptide is also class II mHC-binding polypeptide. The polypeptide polypeptide is also class II mHC-binding polypeptide. The polypeptide polypeptide is also class II mHC-binding polypeptide. The polypeptide polypeptide is also class II mHC-binding polypeptide. The polypeptide polypeptide is also class II mHC-binding polypeptide. The
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                          Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Example 2;
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                                                                                                                        :tp.wipo.int/pub/published_pct_sequences
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                                                                                                                        fragment of a kinase, phosphatase, procease, procease inhibitor, creaming of the process of transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide against any of the purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expensed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed content of the protein tag isolated in electronic format directly from WIPO at
                                                      Matches
                                                                    Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
20-FEB-2002;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC;
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                                                                                                                       Sequence 1143 AA;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  major histocompatability complex; myeloma; colon cancer; gastric cancer;
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                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention describes a purified polypeptide, which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Example
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    28-MAR-2001; 2001US-0279495P
21-MAY-2001; 2001US-0292544P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200278524-A2
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                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              leukemia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    (ZYCO-) ZYCOS INC.
                                                    9;
                                                                    Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        2; SEQ ID NO 1911; 134pp; English.
LILDVPPGV 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   ; 2001US-0292544P.
; 2001US-0310801P.
; 2001US-0326370P.
; 2001US-0336780P.
; 2002US-0358985P.
                                                      Conservative
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                                                                    Score 46;
Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                    polypeptide, which comprises a protease, protease inhibitor, receptor or transcription factor. genic composition for eliciting in
                                                                                    DB 6;
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                                                                                                                                    anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary guest vs. host disease; autoimmune diseases; altergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying reversibly oxidiz screening for specific modula cancer or autoimmune disease.
                                                                                             Sequence 1143
                                                                                                                                                                                                                                                                                                                                               The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, conditions that cause reversible oxidation of PTP, (i) isolating PTP
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           cytostatic; immunosuppressive; antiallergic; protein tyrosine phosphatase; reversible oxi
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    ADL16232 standard; protein; 1143 AA.
                                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 81;
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 1 LILDVPPGV 9
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9; Conserv
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ilarity 100.0%;
Conservative C
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2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                             oxidized protein tyrosine phosphatase, use modulators, potential agents for treating
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Pred. No. 38;
0; Mismatches
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RESULT 17
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DT 22-OC
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KW Human
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ADQ18845
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                                                                                                                                                                                                                                                                                                                                                                   The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples where a higher level of protein expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma-upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
Human; nootropic; immunosuppressant; cytostatic; gene therapy; peripheral nervous system; neuropathy; central nervous system;
                                              Human polypeptide SEQ ID NO 5979
                                                                                                                                                                                                                                                                                                                                            Sequence 1143 AA;
                                                                                                                                       AAM41048 standard; protein; 1149 AA
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                                                                                                                                                                                                                                                                              Score 46; DB Pred. No. 38; O; Mismatches
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RESULT 18
ABU05242
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Best Local (
                                                                                                                                                                                                                                                                     The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic, immunosuppressant and cytotatatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and c.N.S disorders. Note: The sequence data for this patent did not form
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    20-JUN-2000;
19-JUL-2000;
03-AUG-2000;
14-SEP-2000;
19-OCT-2000;
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21-JAN-2000;
25-APR-2000;
                                                                        ABU05242
                                                                                                                                                                                                                                      Sequence 1149
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N-PSDB; AAI60204.
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Wang
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                Example 2; SEQ ID NO 5979; 10078pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Novel nucleic acids and polypeptides, useful as central nervous system injuries.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    26-DEC-2000;
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                                                                                                                                                                                                                                                             S disorders. Note: The sequence of the printed specification
                                                                                                                                     137
                                                                                                                                                           1 LILDVPPGV
                                                                                                                                                                                   Similarity
9; Conserv
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                                                                       standard;
                                                                                                                                   LILDVPPGV
                                                                                                                                                                                    100.0%; ilarity 100.0%; Conservative 0
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2000US-00662191.
2000US-00693036.
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2000US-00552317.
2000US-00598042.
2000US-00620312.
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Wehrman T,
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                                                                       protein; 1149
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, Xu C,
ac RT;
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Pred. No.
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Xue
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                                                                                                                                                                                    Indels
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Zhang J,
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Human expressed protein tag

(EPT) #1908

29-JAN-2003

(first entry)

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ADR39747
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AC ADR3
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AC ADR3
XX
DT 18-N
XX
DE Huma
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                                                                                                                                                                                                                                                                                                                                                                                                       The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified CC polypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide. The purified polypeptide on an aturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC class I or class II MHC-binding polypeptide. The polypeptides and CC polynucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC treating the above mentioned diseases. This sequence represents an CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (RPT) isolated from human tissue for translational CC specification but was obtained in electronic format directly from WIPO at Creating on the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                 Query Match
Best Local S
Matches
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Translational profiling; expressed protein tag; RPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
Human kinase and phosphatase KPP-20 protein SEQ ID NO:20.
                                                                           ADR39747;
                                                                                                                                                                                                                                                                                                                                                           Sequence 1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Chicz
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                                      18-NOV-2004
                                                                                                             ADR39747 standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Leukemia.
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                                                                                                                                                                                                                                                                                                                                                                                            ftp.wipo.int/pub/published_pct_sequences
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                                      (first entry)
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                                                                                                             protein; 1192 AA
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Pred. No. 38;
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ADQ39378
ID ADQ3
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Matches 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening compounds for effectiveness as agonist or antagonist of the polypeptides, or in altering the expression of the target polynucleotide and compounds that specifically bind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HTV; antialLergic; antiinflammatory; chyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                                                                                            ADQ39378 standard; protein; 1219
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Sequence 1192
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N-PSDB; ADR39793.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human; kinase and phosphatase protein; KPP; enzyme; cytostatic;
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9; Conserv
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; 2003US-0456932P.
; 2003US-0458844P.
; 2003US-0461678P.
; 2003US-0463937P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        0;
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Pred. No.
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ADQ39378;

18-NOV-2004 (first entry)

myocardial infarction-associated

gene derived

protein, SEQ ID 1041

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Reconstiguous mucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid comprising the method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from the world and composite.
                                                                                                                                           Query Match
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                      Sequence 1219
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Myocardial infarction; detection; single nucleotide polymorphism; SNP;
208 LILDVPPGV 216
                                                                1 LILDVPPGV 9
                                                                                                                                               Similarity 9; Conserv
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                                                                                                                                               Conservative
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100.0%; Pred. No.
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                                                                                                                                                                             DB 8; Length 1219;
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RESULT 22 ADP12966 ID ADP12

ADP12966 standard; protein; 1256 AA.

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Query Match
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                                                                                                                                                                   invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, and the condition of the condition of the encoded group mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes of obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of a murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-
cobesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptih, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present
                                                                                                                                       Sequence 1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob;.diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
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12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Disclosure; SEQ ID NO 541; 91pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JUL-2003; 2003WO-US023684
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                               LILDVPPGV
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Pred. No.
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41;
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RESULT 23
ADQ39376
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                                                                                                                                                                                                                                                                                                                                                                 The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic sislet, lung, bone marrow or stem cell transplant rejection, in an individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lung, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNA sequence of the invention which show altered
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                                                                                                                                                                                                                                                         Sequence 1256 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Claim 65; SEQ ID NO 2975; 1762pp; English.
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20-DEC-2002; 2002US-00325899.
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                                         Human myocardial infarction-associated gene derived protein, SEQ ID 1039
                                                                         18-NOV-2004
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cardiant; gene therapy; human.
             Myocardial infarction; detection; single nucleotide polymorphism; SNP;
                                                                                                                               ADQ39376 standard; protein; 1258
                                                                                                                                                                                                                                                                                                                                                        expression
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RESULT 24
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                                                                                                                                                                                                                                                                                                                                  The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity.
                                                                                                                                                                                                                                                                                               Sequence 1258
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30-APR-2003;
ADQ39379;
                                       ADQ39379 standard; protein; 1267
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                                                                                                                                       LILDVPPGV
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2003US-0466412P.
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18-NOV-2004 (first entry)

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The invention relates to a novel method for identifying an individual who CC has an altered risk for developing myocardial infarction. The method CC comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's CC nucleic acids, where the presence of the SNP is correlated with an CC further comprises: an isolated nucleic acid molecule comprising at least CC 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino CC comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in a cC nucleic acid molecule; a method of detecting a variant polypeptide; and a cC method for identifying an agent useful in treating or preventing CC myocardial infarction. The novel detecting a variant polypeptide; and a cC method for identifying an agent useful in treating or preventing cC composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. This sequence was not shown in the specification. The sequence has come from cC sequence was not shown in the specification. The sequence has come from an electronic sequence listing downloaded from the WIPO website.
                                                                                                                     Query Match
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                                                                                                                                                                                                                                          Sequence
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human myocardial infarction-associated gene derived protein, SEQ ID 1042
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      2004-533949/51.
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                                                            1 LILDVPPGV 9
                                                                                                                     Similarity
9; Conserv
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LILDVPPGV 264
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                                                                                                                                                 100.0%;
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                                                                                                                     0,
                                                                                                                                                     Score 46; DB 8; Length 1267; Pred. No. 42;
                                                                                                                           Mismatches
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RESULT 25 ABU05243

RESULT 26 ABU05241

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Best Local :
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                    The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor enternascription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing
                                                                                                                                                                      expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO a
                                                                                                                                                                                                                       myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melymphoma or leukaemia. These are also useful for screening agents treating the above mentioned diseases. This sequence represents an
                                                                                                                            Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer MHC; major histocompatability complex; myelon MHC; aclon cancer; gastric adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kinase; phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JAN-2003
                                                                                                                                                       ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  treating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200278524-A2
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293
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                            1 LILDVPPGV 9
                                                          Similarity 9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                      2;
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LILDVPPGV 301
                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 1909; 134pp;
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                                                               Conservative
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                                                                           100.0%; Score 46;
100.0%; Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer, gastric
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                                                               Mismatches
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                                                                             43;
                                                                                              DВ
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                                                                                            Length 1304;
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                                                                                                                                                                                                                                                                                                                                       binds to this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lymphoma
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                                                                                                                                                                     The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor. The transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MHC-binding polypeptide. The polypeptides and polypeptide aparticularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                            Query Match
Best Local S
Matches 9
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0336370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        treating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       WPI; 2003-040607/03.
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                                                                                                                                                            ftp.wipo.int/pub/published
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         leukemia
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 293
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                                                            Similarity 9; Conserv
LILDVPPGV 301
                              LILDVPPGV 9
                                                                                                                              1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                      SEQ ID NO 1907; 134pp; English
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                                                              Conservative
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Pred. No.
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                                                              Mismatches
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RESULT 27 ABU05244

RESULT 28 ADL16230

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Matches 9
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01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                    fragment of a kinase, phosphatase, profease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MIC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                               expressed protein tag (EPT) isolated from human tissue for tr
profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly
                                                                                                                                                                                                          myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanulymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                     Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                          Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               WPI; 2003-040607/03.
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21-MAY-2001;
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                                                                                                                                                 ftp.wipo.int/pub/published_pct_sequences
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                            1 LILDVPPGV
                                                         Similarity
9; Conserv
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                                                                                                                      1304
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer, e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 1910; 134pp; English
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                                                        100.0%; ilarity 100.0%; Conservative 0
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2001US-0292544P.

2001US-0310801P.

2001US-0326370P.

2001US-0336780P.

2002US-0358985P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         INC.
                                                                                                                                                                                                                                                                                                                                                                                           describes a purified polypeptide, which comprises a
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  kinases, phosphatases, proteases, transporters, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Urban
                                                           0
                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cancer, gastric
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        (EPT)
                                                         Score 46; DB
Pred. No. 43;
0; Mismatches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cancer,
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                                                                                        Length 1304;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     sarcoma,
                                                                                                                                                                                              for translational
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                     lymphoma
                                                                                                                                                                     from WIPO at
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RESULT 29
ADP65158
ID ADP65
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Matches S
                                                                                                                                                                                                                                                                                                                               phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (ii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that; (a) reversibly modify such PTP, or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer);
               ADP65158 standard; protein; 1304 AA
                                                                                                                                                                                                                                   Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                   guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              screening
cancer or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein tyrosine phosphatase; reversible oxidation; dephosphorylation; inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Human protein tyrosine phosphatase #26
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The invention relates to a method for identifying a protein tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Disclosure; SEQ ID NO 79; 238pp; English.
                                                                                                                                                                                                                                                                                     immunosuppressed abnormalities. The
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 13-FEB-2003; 2003WO-EP001446
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      cytostatic; immunosuppressive; antiallergic;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ADL16230 standard; protein; 1304 AA
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                                                                                                   293
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                                                                                                                                                                    9
                                                                                                                                                                                  Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              COLD SPRING HARBOR LAB.
                                                                                                                               LILDVPPGV 9
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              autoimmune
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                                                                                                                                                                                                                                                                                       This
                                                                                                                                                                                                                                                                                     sequence represents
                                                                                                                                                                                  100.0%;
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                                                                                                                                                                                  Score 46;
Pred. No.
                                                                                                                                                                    Mismatches
                                                                                                                                                                                                                                                                                     one of the PTP
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                                                                                                                                                                                                 Length 1304;
                                                                                                                                                                                                                                                                                     enzyme of the
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                                                                                                                                                                Gaps
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유 성

Local Similarity

100.0%; Score 46; DB ilarity 100.0%; Pred. No. 43; Conservative 0; Mismatches

7; 0;

Length 1304;

0,

Gaps

0

LILDVPPGV

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or arthritides in the patient, where gene expression of at least 60% of the genes correlates with that of the gene signature. The invention further comprises: a treatment of rheumatoid arthritis; identification of genes for targeting in the treatment of rheumatoid arthritis in a mammal other than a mouse; diagnosis of rheumatoid arthritis in a mammal, an array or gene chip, specific for rheumatoid arthritis; diagnosis or analyses of autoimmune disease or rheumatoid arthritis; screening the efficacy of a candidate drug in vitro for the treatment of collageninduced arthritis; and reducing the symptoms associated with collageninduced arthritis. The compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic,
                                                        antigout, antiinflammatory, dermatological, and immunomodulatory. The methods and compositions of the present invention are useful for diagnosing and treating autoimmune disease or arthritides, such as rheumatoid arthritis, lupus, ankylosing spondylitis, fibrositis, fibrositis, fibrositis, and an fibromyalgia, osteoarthritis, gout, juvenile rheumatoid arthritis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment of autoimmune diseases or arthritides. Note: This sequence is not shown in the specification. It has been supplied in an electronic format from
Sequence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gene expression signature to diagnose or analyse the autoimmune disease
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     autoimmune disease; arthritide; gene expression analysis; rheumatoid arthritis; collagen-induce; immunosuppressive; antirheumatic antiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; Fibrosiiis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            patient sample containing mRNA, analysing gene expression using the mRNA that results in a gene expression signature of the mRNA, and using that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Disclosure; Page; 56pp;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            GENBANK;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WPI; 2003-712740/67.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             31-OCT-2002; 2002WO-US035433
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to a novel method for diagnosing and analysing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  31-OCT-2001; 2001US-0336220P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO2003072827-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         autoimmune disease or arthritides.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      12-AUG-2004
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (CHIL-) CHILDREN'S HOSPITAL MEDICAL CENT.
  1304
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     The method
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                                                                                                                      Matches
                                                                                                                                                Query Match
Best Local
                                                                                                                                                                                                                                                                                                                                                     invention describes performing differential gene expression analysis between the white adipose tissue (MAT) or stromal vascular tissue (SVT) of any two different mice section a group consisting of wild-type, HMGI-C -/-, ob/ob, or HMGI-C -/- ob/ob genotype mice. Accordingly, using this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        This invention relates to a novel method for identifying genes that are over-expressed in adipose tissue and as such it provides targets for anti-obesity pharmaceutical compositions. Specifically, it refers to a high mobility group I-C protein (HMGI-C) that is associated with obesity and is epistatic to leptin, furthermore, it refers to the ob gene where an autosomal recessive trait is linked to obesity and diabetes. The present interpretation of the control of the c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         adipogenesis;
antidiabetic;
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                                                                                                                                                                                                                                          Sequence 1304 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Disclosure; SEQ ID NO 563; 91pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        expression analysis between adipose tissue or stromal vascular tissue of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           WPI; 2004-143846/14.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JUL-2003; 2003WO-US023684.
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                                                                                                                                                                                                                                                                                                                                     hypotensive activities.
                                                                                                                                                                                                                                                                                                   murine adipocyte specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  mobility
   293
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                                                                                                                      9
                                                                                                                                                   Similarity
LILDVPPGV 301
                                                           LILDVPPGV 9
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                                                                                                                      Conservative
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                                                                                                                                                100.0%;
                                                                                                                                                                                                                                                                                                                               This polypeptide sequence is a human homologue of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Ashar H,
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Pred. No.
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                                                                                                                                                                            8; Length 1304;
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RESULT 31

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AB084455
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                                                                                                                                                                                                                                           CC mentioned nucleotide sequences, an isolated golypeptide (encoded within CC an open reading frame of a CA sequence selected from any of the 95 CC polynucleotide sequences as mentioned in the specification, or its CC complement), an isolated antibody, (or its antigen binding fragment) that be binds to the above polypeptide, a hybridoma that produces the above CC monoclonal antibody, a pharmaceutical composition comprising the above CC antibody and a pharmaceutical excipient, a kit for detecting cancer CC cells (comprising the antibody cited above, methods for diagnosing cancer CC individual, a method for inhibiting growth of cancer cells in an CC individual, a method for delivering a therapeutic agent to cancer cells in an individual, an electronic library comprising the above CC polynucleotide or polypeptide (or their fragments), methods of screening CC for anticancer activity or for a bioactive agent capable of modulating CC associated with expression of a polypeptide in a test cell sample, a cethod for treating cancers and a method for inhibiting the expression of CC Agene in a cell. The composition and methods are useful for detecting, diagnosing representation and methods are useful for detecting, diagnosing representation and methods are useful for detecting.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancerassociated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the above.
                                                             diagnosing, preventing and treating cancers, especially lymphoma and leukaemia. These may also be used in screening for agents that modulate cancer. The present sequence is a human CAP protein sequence. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            claim 18; seqid 147; 310pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma and leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Morris DW,
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2003US-00417375.
2003US-00461862.
2003US-00663431.
2003US-00737318.
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      The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleotide sequences given in the specification in the individual's current comprises; an isolated nucleic acid molecule comprising at least contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an isolated polypeptide fragment; an amplified polynucleotide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in nucleic acid molecule; a method of detecting an SNP in a nucleic acid, comprising the polynucleotide, a method of detecting an variant polypeptide; and a method for identifying an agent useful in treating or preventing method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction method and for preparing a composition for treating or prevention and has cardiant activity.
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                                                                                                                                                                                                                                                                                                                                                                                                                                             Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-045313P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                Claim 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                               the individual's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (APPL-) APPLERA CORP
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9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      LILDVPPGV 301
                                                                                                                                                                                                                                                                                                                                                                                             SEQ ID NO 1043; 145pp; English
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           acid sequences given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antit that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP nucleic acid molecule; a method of detecting an SNP nucleic acid molecule; a method of detecting an SNP nucleic acid molecule; a method of detecting a variant polypeptide; a method for identifier as method of detecting a variant polypeptide; a method of detecting as SNP nucleic acid molecule; a method of detecting a variant polypeptide; a method of detecting as SNP nucleic acid molecule; a method of detecting as SNP nucleic acid molecule; a method of detecting a variant polypeptide; a method of detecting as SNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a method of detecting a sNP nucleic acid molecule; a metho
                                                                                                                                                                                                                                          comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule compristing at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 myocardial infare
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10-MAR-2003; 2003US-0453135P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Claim 10; SEQ ID NO 1038; 145pp; English
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       (APPL-) APPLERA CORP
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CC myocardial infarction. The novel detection method has cardiant activity.

CC The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or composition for treating or preventing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This composition for treating or preventing myocardial infarction. This composition of a human myocardial infarction. This composition is sequence ontaining one or more SNP's of the invention. Note: This sequence was not shown in the specification. The sequence has come from the sequence listing downloaded from the WIPO website.

SQ Sequence 1306 AA;

Query Match
Best Local Similarity 100.0%; Score 46; DB 8; Length 1306;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 LILDVPPGV 3

Search completed: May 3, 2005, 07:37:15
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Post-processing: Minimum Match 0%
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Listing first 45 summaries
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Copyright (c) 1993 - 2005 Compugen Ltd.
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A46546
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Result No.

Score

Database :

Minimum DB Maximum DB

Searched:

Scoring table: Sequence: Perfect score: Title: Run on:

	4 5	44	43	42	41	40	39	38	37	36	35	34	33	32	31	30
	33	33	33	33	33	34	34	34	34	34	34	34	34	34	34	34
	67.3	67.3	67.3	67.3	67.3	69.4	69.4	69.4	69.4	69.4	69.4	69:4	69.4	69.4	69.4	69.4
	397	386	372	331	98	2212	708	672	592	513	512	482	430	391	355	335
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AT TOXIMONITO	C84078	C83146	T04157	AE3372	T14136	A41098	T29669	B84782	E70488	T11999	T09801	T43885	B95892	F82259	F96020	B64572
TTC .	hypothetical prote	D-ala-D-ala-carbox	dihydrokaempferol	toluene tolerance	NADH2 dehydrogenas	calcium channel pr	hypothetical prote	probable receptor-	cytochrome-c oxida	cytochrome-c oxida	cytochrome-c oxida	cytochrome-c oxida	probable ABC trans	D-alanyl-D-alanine	probable iron ABC	hypothetical prote

ALIGNMENTS

A; Status: not compared with conceptual translation A; Molecule type: mRNA A; Residues: 32-192 cRA2> A; Experimental source: clone HLC-2 R; Tsai, A.Y.; Streuli, M.; Saito, H. Mol. Cell. Biol. 9, 4550-4555, 1989 A; Title: Integrity of the exon 6 sequence is essential for tissue- A; Reference number: 157658; MUID:90066468; PMID:2531281 A:Accession: 157658	otein 56090 A',874 A68269	A; Molecule type: mRNA A; Residues: 1-32,99-264 <st2> A; Cross-references: GB:Y00638 A; Experimental source: clone LCA.111 and clone LCA.260 A; Accession: C46546 A; Status: preliminary A; Molecule type: mRNA A; Residues: 1-31,193-264 <st3> A; Cross-references: GB:Y00638 A; Experimental source: clone LCA.1 R; Rolph, S.J.; Thomas, M.L.; Morton, C.C.; Trowbridge, I.S.</st3></st2>	J. Exp. Med. 166, 1548-1566, 1987 J. Exp. Med. 166, 1548-1566, 1987 A;Title: Differential usage of three exons generates at least five A;Reterence number: A46546; MUID:88061067; PMID:2824653 A;Accession: A46546 A;Status: preliminary A;Molecule type: mRNA A;Residues: 1-1304 <str> A;Cross-reterences: UNIPROT:P08575; GB:Y00638 A;Experimental source: clone LCA.6/2 A;Status: preliminary A;Status: preliminary Differences: DNIPROT:P08575; GB:Y00638 A;Status: preliminary Differences: DNIPROT:P08575; GB:Y00638 D;Status: preliminary</str>
for tissue-specific alternative	(leukocyte-common antigen). 1-1206,'P',1208-1304 <ral></ral>	· ·	least five different mRNAs enco

specific); mouse

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157

GB:M

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A; Map position: 1q31-1q32

C; Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic C; Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric C; Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric C; Keywords: alternative splicing; glycoprotein; phosphoprotein; phosphoric C; Keywords: alternative splicing; classification of the common antigen cytosolic domain homology class
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C;Genetics:
A;Gene: GDB:PTPRC; CD45
                                                                                                                                                                                                                                                                                                                                                                                                                                                   leukocyte common antigen precursor - mouse (fragment)
N;Alternate names: B220; Ly-5 (B-cell specific)
C;Species: Mus musculus (house mouse)
C;Date: 19-May-1989 #sequence_revision 19-May-1989 #text_change 09-Jul-2004
C;Accession: A28335
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Gene: Ly-5
C;Superfamily: leukocyte
C;Keywords: glycoprotein
                                                                                                                                                                A;Cross-references: UNIPROT:Q61814; GB:M14342
C;Superfamily: leukocyte common antigen; leukocyte common antigen
F;1-23/Domain: signal sequence #status predicted <SIG>
                                                                                                                                                                                                                                                                                                          R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A.
Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987
A;Title: Alternative use of 5' exons in the specification
A;Reference number: A28335; MUID:87260987; PMID:3037546
A;Accession: A28335
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A; Residues: 1-24 < RES>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Species: Mus musculus (house mouse)
C;Date: 02-Aug-1996 #sequence_revision
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Best Local S
Matches 10
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Title: Organization of the Ly-5 Gene.
Reference number: 157644; MUID:89096862; PMID:3211131; Accession: 157644
                                                     Best
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Accession:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  675-899/Domain: protein-tyrosine-phosphatase homology <PTP>
851/Active site: Cys (phosphocysteine intermediate) #status
857/Binding site: substrate phosphate (Arg) #status predicts
                          Matches
                                                                                Query Match
                                                                                                                                            24-183/Product:
                                                                                                                                                                                                                                                       Residues: 1-183 <SAG>
                                                                                                                                                                                                                                                                                     Molecule type: mRNA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Cross-references: UNIPROT:Q61815; GB:M23354; NID:g340890; PIDN:AAA39462.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cell. Biol. 8, 4889-4895, 1988
                       Local Similarity nes 9; Conserv
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                                                                                                                                            leukocyte common antigen,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         GDB:119768; OMIM:151460
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Pred. No. 0.081;
                                                                                Score 43;
                                                     Pred. No. 0
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Pred. No.
                                                                                                                                                                                                                            GB:M14342
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                                                                                                                                            200K #status predicted
                                                                                DB 2;
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                                                                                   Length 183;
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A;Residues: 1-30,170-517,'NTT',521-527,'G',529-555,'S',557-587,'S',589-905,'Q',907-930,'
A;Cross-references: GB:M14342; NID:g198914; PIDN:AAA39458.1; PID:g198915
R:Yi. T.; Cleveland, J.L.; Ihle, J.N.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                R;Saga, Y.; Tung, J.S.; Shen, F.W.; BOSSE, E.A.
Proc. Natl. Acad. Sci. U.S.A. 83, 6940-6944, 1986
A;Title: Sequences of Ly-5 cDNA: isoform-related diversity of A;Reference number: A29381; MUID:86313686; PMID:2944116
A;Accession: A29381
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           5
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A; Residues: 'R', 289-98;329,'V',331-336,'Y';'R',364-370,'X',372-375;595-608;638-649;669-
R; Johnson, N.A.; Meyer; C.M.; Pingel, J.T.; Thomas, M.L.
J. Biol. Chem. 264, 6220-6229, 1989
J. Biol. Chem. 264, 6220-6229, 1989
A; Title: Sequence conservation in potential regulatory regions of the mouse and human le
A; Reference number: A33522; MUID:89197920; PMID:2522930
A; Accession: A33522
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N;Alternate names: 200K leukocyte common ar
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A;Cross-references: GB:M23241; NID:g340850; PIDN:AAA39460.1; R;Saga, Y.; Tung, J.S.; Shen, F.W.; Boyse, E.A. Proc. Natl. Acad. Sci. U.S.A. 84, 5364-5368, 1987 A;Title: Alternative use of 5' exons in the specification of
                                                                                                                                                                                                                                                                                                                                                                                                                              Proc. Natl. Acad. Sci. U.S.A. 84, 161-165, 1987
A;Title: Cloned murine T200 (Ly-5) cDNA reveals multiple
A;Reference number: A29075; MUID:87092355; PMID:2948186
A;Accession: A29075
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           A; Title: High sequence conservation between rat A; Reference number: A60933; MUID:87192931; PMID:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              R;Gonez, L.J.; Walker, I.D.; Sandrin, M.S.; McKenzie, I.F.C. Immunogenetics 25, 263-266, 1987
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         A; Molecule type: mRNA
A; Residues: 730-838 < YIA>
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A;Cross_references: UNIPROT:P06800; UNIPROT:Q61814; UNIPROT:Q61815; UNIPROT:Q61813;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                A; Molecule type: mRNA
A; Residues: 1-1291 < T
                                                                                                              A; Molecule type: DNA
A; Residues: 32-73 < RES>
                                                                                                                                                                                                                                                                                                                                                                        A; Molecule type: mRNA
A; Residues: 961-1291 < RAS>
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A; Residues: 1-22 < JOH>
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                                                                                                                                                                   A;Status: preliminary; translated from
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                                                                                                                                                                                                                                  A;Reference number:
                                                                                                                                                                                                                                                          A; Title: Structural
                                                                                                                                                                                                                                                                                        Immunogenetics 28, 271-277, 1988
                                                                                                                                                                                                                                                                                                                   R;Tung, J
                                                                                                                                                                                                                                                                                                                                       A;Cross-references: GB:M15174; NID:g201105; PIDN:AAA40161.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A;Cross-references: GB:M22456; NID:g198755; PIDN:AAB46374.1;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             σ
                                                                                                                                                                                                                               features of Ly-5 glycoproteins of the I54450; MUID:88330145; PMID:3417340
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                10
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                                                                                                                                                                         GB/EMBL/DDBJ
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Ly-5 precursor (B-cell variant) ntigen; B220; CD45; Ly-5 (B-cell
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 PMID:3570377
  specification of Ly-5 isoforms distinguishin
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         (T200) and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          transcripts within
                                                                                                                                                                                                                                                             mouse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         mouse (Ly-5)
                                                                                      PID:9548174
                                                                                                                                                                                                                                                                                                                                                PID:g201106
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             PID:g554185; GB:J04640;
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leukocyte

common

and

T-lym

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A; Molecule type: mRNA
A; Molecule type: mRNA
A; Residues: 1-1237 <FRANS
A; Residues: 1-1237 <FRANS
A; Cross-references: UNIPROT: (991976; EMBL: Z21960; NID: 9510510; PIDN: CAA79972.1;
C; Superfamily: leukocyte common antigen; leukocyte common antigen cytosolic dom
C; Keywords: phosphoprotein; phosphoric monoester hydrolase; tyrosine-specific p
F; 528-1170/Domain: leukocyte common antigen cytosolic domain homology <LACS
F; 610-834/Domain: protein-tyrosine-phosphatese homology <PTPs
F; 786/Active site: Cys (phosphocysteine intermediate) #status predicted
F; 786/Active site: Cys (phosphocysteine intermediate) #status predicted
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      C;Accession: A54080; I50592
R;Fang, K.S.; Barker, K.; Sudol, M.; Hanafusa, H.
J. Biol. Chem. 269, 14056-14063, 1994
A;Title: A transmembrane protein-tyrosine phosphatase contains
A;Reference number: A54080; MUID:94245724; PMID:8188686
S
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             protein-tyrosine-phosphatase (EC 3.1.3.48), receptor type delta precursor - chicken C;Species: Gallus gallus (chicken) C;Date: 02-Aug-1994 #sequence_revision 02-Aug-1994 #text_change 09-Jul-2004
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R;Shen, F.W.; Saga, Y.; Litman, G.
Proc. Natl. Acad. Sci. U.S.A. 82,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              A; Accession: A54080
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Residues: 10-30,170-263 <SHE>
A;Cross-references: GB:M11934; NID:g198919; PIDN:AAA39461.1;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          A; Accession:
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Best Local S
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Query Match
Best Local :
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64,150,161,207,211,218,253,258,290,311,322,347,416,427,487,489,520,556/Binding
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      583-1223/Domain: leukocyte common antigen cytosolic domain homology <LAC>587-1291/Domain: intracellular #status predicted <INT>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              ;Molecule type: DNA
;Residues: 'MT',1-22 <RE2>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Saga, Y.; Tung, J.

1. Cell. Biol. 8, 4889-4895, 1988

7. Itle: Organization of the Ly-5 Gene.

Reference number: I57644; MUID:89096862; PMID:3211131
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                                                                                                                                                                                                                                                   792/Binding site: substrate phosphate (Arg) #status predicted
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Genetics:
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                                                                                    Local Similarity
les 9; Conserv
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9; Conserv
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                                                                                                                           85.7%;
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                                                                                    <u>,</u>
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                                                                                                                           Score 42; I
Pred. No. 5
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Pred. No.
                                                                                    Mismatches
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                                                                                                                           DB 2;
5.7;
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3.8;
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                                                                                                                                                                   Length 1237;
                                                                                    Indels
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A;Authors: Rutter, S.; Seeger, K.; Simon, S.; Simmonds, M.; A;Title: Massive gene decay in the leprosy bacillus. A;Reference number: A86909; MUID:21128732; PMID:11234002 A;Accession: G87202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 R;Smith, D.R.; Robison, K. submitted to the EMBL Data Library, A;Description: Mycobacterium leprae
                                                                                                                                                                                                                                                                                                                                                                                                                                                     R;Cole, S.T.; Eiglmeier, K.; Parkhill, J.; James, K.D.; Thomson, R.; Davies, R.M.; Devlin, K.; Duthoy, S.; Feltwell, T.; Fraser, Jeam, M.A.; Rutherford, K.M.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     A;Start codon: GTG
C;Superfamily: Mycobacterium leprae hypothetical protein L518_C3_195
G90444
                  RESULT 8
                                                                                                                                                                                                                                                                                                A; Molecule type: DNA
A; Residues: 1-336 <STO>
                                                                                                                                                                                                                                                                                                                                                                                                                  Nature 409, 1007-1011, 2001
A;Authors: Rutter, S.; Seeg
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                C; Accession: G87202
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        probable membrane protein [imported] - Mycobacterium leprae
C;Species: Mycobacterium leprae
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A; Residues: 1-213 <SMI>
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A; Accession: S73011
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                                                                                                                                                                                                                                                                            A;Cross-references: UNIPROT:069510; GB:AL450380; NID:g13093956; PIDN:CAC31863.1; GSPDB:
                                                                                                                                                                                                                                                                                                                                   A; Status: preliminary
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Best Local (
                                                                                                                                                          Matches
                                                                                                                                                                           Query Match
Best Local
                                                                                                                                                                                                                                                           Genetics:
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                                                                                                                                                                             Similarity
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                                                                                                                                                                           79.6%;
88.9%;
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88.9%; Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                           Score 39;
Pred. No.
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                                                                                                                                                                                             Length 336;
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Holroyd,
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R;She, Q.; Singh, R.K.; Confalonieri, F.; Jong, I., Jeffries, A.C.; Kozera, C.J.; arrett, R.A.; Ragan, M.A.; Sensen, C.W.; submitted to GenBank, April 2001

R.K.; Confalonieri, F.; Zivanovic,

Van der Oost, J.

N.; Peng,

Y.; Allard, G.; Awa Penq, X.; Thi-Ngoc,

Awayez, M. goc, H.P.;

Chan

Sulfolobus solfataricus complete genome

C; Accession: G90444

hypothetical protein SSO2702 (imported) - Sulfolobus solfataricus C;Species: Sulfolobus solfataricus C;Date: 24-May-2001 #sequence_revision 24-May-2001 #text_change 09-Jul-2004

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hypothetical protein M05B5.6 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 09-Jul-2004 C;Accession: T23729 R;Gardner, A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                hypothetical protein D1007.10 - Caenorhabditis elegans C;Species: Caenorhabditis elegans C;Date: 22-Oct-1999 #sequence_revision 22-Oct-1999 #text_change C;Accession: T30928
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A;Accession: G90444
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-347 <KUR>
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                                                                                                     A;Map position: 1
A;Introns: 50/2; 99/1; 133/3; 185/3; 229/3; 402/3; 457/3
                                                                                                                                                                                A; Cross-references: UNIPROT: Q21517; A; Experimental source: clone M05B5
                                                                                                                                                                                                               A; Molecule type: DNA
A; Residues: 1-481 <WIL>
                                                                                                                                                                                                                                                                   submitted to the EMBL Data Library, April 1996
A;Reference number: Z19790
A;Accession: T23729
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A;Introns: 33/2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  A;Cross-references: EMBL:AF003151; PIDN:AAB54228.1
A;Experimental source: strain Bristol N2; clone D1
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A;Status: prelimina
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A; Reference num
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         submitted to the EMBL Data Library, August 1999
A;Description: The sequence of C. elegans cosmid D1007
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C;Genetics:
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                                 Matches
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                                                     Query Match
Best Local :
                                                                                                                                            Gene: CESP:M05B5.6
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les 7; Conserv
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7; Conserv
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   LLAFGFAFL 10
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77.8%;
                                                     73.5%;
77.8%;
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                                                                    Score 36;
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                                                       Pred. No. 32;
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                                     Mismatches
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                                                                      Length 481;
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dihydroorotate dehydrogenase - Helicobacter pylori (strain J99)
(;Species: Helicobacter pylori
A;Variety: strain J99
A;Variety: strain J99 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
C;Date: 12-Feb-1999 #sequence_revision 12-Feb-1999 #text_change 09-Jul-2004
C;Accession: E71935
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A;Authors: Wallin, E.; Hayes, W.S.; Borodovsky, M.; Karpk, P.D.; Smith, H.O.; Fraser, C. A;Title: The complete genome sequence of the gastric pathogen Helicobacter pylori. A;Reference number: A64520; MUID:97394467; pMID:9252185

A;Accession: C64646
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A;Title: The genome sequence of the facultative intracellular pathogen Brucella melitens A;Reference number: AD3252; PMID:11756688
                                                                                                                                                                                                                                  밁
                                                                                                                                                                                                                                                                                                                                                                                                                              A;Cross-references: UNIPROT:025655; GB:AE000609; GB:AE000511; NID:g2314150; PIDN:AAD0805 C;Superfamily: dihydroorotate oxidase
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C;Date: 09-Aug-1997 #sequence_revision 09-Aug-1997 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             A;Molecule type: DNA
A;Residues: 1-721 <KUR>
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A; Residues: 1-351 < TOM>
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C;Species: Brucella melitensis
C;Date: 01-Feb-2002 #sequence_revision 01-Feb-2002 #text_change 09-Jul-2004
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                                                                                                                                                                                                                                  LMAFGFGYL
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37;
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R;Alm, R.A.; Ling, L.S.L.; Moir, ; Ives, C.; Gibson, R.; Merberg, Nature 397, 176-180, 1999

D.T.; King, B.L.; D.; Mills, S.D.; J

Jiang,

Brown, E.D.; Doig, P.C.; Smith, Jiang, Q.; Taylor, D.E.; Vovis,

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C;Accession: T03844
R;Nakamura, T.M.; Morin, G.B.; Chapman, K.B.; Weinrich, S.L.; Andrews, W.H.; Lingner, J. Science 277, 955-959, 1997
A;Title: Telomerase catalytic subunit homologs from fission yeast and human.
A;Reference number: Z15111; MUID:97400623; PMID:9252327
A;Accession: T03844
A;Status: preliminary; translated from GB/EMBL/DDBJ
                                                                                                              A;Gene: TRT
A;Map position:
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R;Ogata, H.; Audic, S.; Renesto-Audiffren, P.; Fournier, P.E.; Barbe, V.; Samson, D.; Science 293, 2093-2098, 2001

A;Title: Mechanisms of Evolution in Rickettsia conorii and Rickettsia prowazekii.

A;Reference number: A97700; MUID:21442074; PMID:11557893

A;Accession: C97708
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A;Accession: E71935
A;Status: preliminary
A;Molecule type: DNA
A;Residues: 1-351 <ARN>
A;Residues: 1-351 <ARN>
A;Cross-references: UNIPROT:Q9ZM11; GB:AE001475; GB:AE001439; NID:g4154939; PIDN:AAD0599
A;Experimental source: strain J99
C;Genetics:
                                                                                                                                                                  A;Molecule type: mRNA
A;Residues: 1-1132 <NAK>
A;Residues: 1-1132 <NAK>
A;Cross-references: UNIPROT:014746; EMBL:AF015950; NID:g2330016; PIDN:AAC51672.1; PID:g2
A;Experimental source: kidney
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              N;Alternate names: telomerase reverse transcriptase
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C;Superfamily: dihydroorotate oxidase
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A; Residues: 1-478 < KUR>
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                                                                                                                                                                                                                                                                                                                                                                                                                          ;Species: Homo sapiens (man)
;Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 09-Jul-2004
;Accession: T03844
            Query Match
Best Local Similarity
Matches 7; Conserv
                                                                                                                                                             Genetics
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Best Local 9
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Local Similarity 60.0%;
hes 6; Conservative
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71.4%; Score 35; DB 2; Length 1132; ilarity 77.8%; Pred. No. 1.2e+02; Conservative 1; Mismatches 1; Indels
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43
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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AAY40561	AAG22611	AAG22612	AAG22613	ADN24502	ADN21747	AAB01484	ADH86272	ABU49732	ABO84844	ADD01200	ADJ71182	AAM41249	AAM39463	ABU24704	ADQ39375	ADQ39380	AB084455	ADM67209	ADP65158
Aay40561	Aag22611	Aag22612	Aag22613	Adn24502	Adn21747	Aab01484	Adh86272	Abu49732	Abo84844	Add01200	Adj71182	Aam41249	Aam39463	Abu24704	Adq39375	Adq39380	Abo84455	Adm67209	Adp65158
Maize glu	Zea mays	Zea mays	Zea mays	Bacterial	Bacteria.	Lectin po	Enterococ	Protein e	Murine ca	Human nuc		Human pol	Human pol	Protein	Human myc	Human myc	Human car	Human ad:	Human pro

ALIGNMENTS

RESULT 1 ABG31973 Human; CD45; human leukocyte antigen; HLA; cytotoxic T lymphocyte; CTL; antigen-presenting cell; APC; major histocompatibility complex; MHC; antigen, allogenic; T cell receptor; TCR; cancer; tumour; allogenic stem cell transplantation; CFU-GM; leukaemia; colony forming unit-granulocyte macrophage; immunotherapeutic; 06-JUN-2002. WO200244207-A1 Human CD45 HLA-binding peptide, huCD45/244. 05-NOV-2002 (first entry) ABG31973 standard; peptide; 9 Homo sapiens. haematopoietic; ABG31973; malignant. A

30-NOV-2000; 2000WO-GB004566

30-NOV-2000; 2000WO-GB004566.

(IMCO-) IMPERIAL COLLEGE INNOVATIONS LTD

Stauss HJ, Amrolia PJ;

WPI; 2002-599413/64.

Novel peptide comprising leukocyte antigen binding peptide of human CD45 polypeptide, useful for producing activated cytotoxic T lymphocytes, for killing cancerous cells e.g. leukemia.

Claim 2; Page 38; 56pp; English.

The invention discloses a peptide comprising the human leukocyte antigen (HLA)-binding peptide of human CD45 polypeptide, its portion or variant, provided that the peptide is not the intact human CD45 polypeptide. The peptides are useful for producing activated cytocoxic T lymphocyte (CTL) in vitro which involves contacting the CTL with an antigen-presenting cell, where its major histocompatibility complex (MHC) class I molecules are loaded with the peptide, to activate, in an antigen specific manner, where the CTL and the antigen presenting cell are allogenic with respect to the class I MHC molecule that is presenting peptides of CD45. The

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RESULT 2
AAW35856
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       CC antigen-presenting cell contains an expression vector including the CD45 peptides. The activated CTLs are useful CC polynucleotides encoding the CD45 peptides. The activated CTLs are useful CC for killing, and in the manufacture of a medicament for, target cells CC expressing the CD45 peptides in a patient. A T cell receptor (TCR), CC recognising cells expressing the CD45 peptides, is useful for killing CC target cells (cancer cells) in a patient which involves obtaining CTLs CC from the patient, introducing the CD45 peptides, is useful for killing CC the TCR and then introducing the cells thus produced into the patient who CC has undergone an allogenic stem cell transplantation. Tumour reactive CC cTLs have been shown to mediate tumour regression in animals models by CC the inhibition of colony forming unit-granulocyte macrophage (CFU-GM) CC colony formation. The cancer is leukaemia which expresses the CD45 polypeptide. The method is useful as an immunotherapeutic for treating a CC express the CD45 polypeptide. The advantage this method provides is that the CTLs destroy the malignant haematopoietic cells but not the CTLs destroy the malignant haematopoietic cells but not the CTLs destroy the malignant face presented is the peptide, huCD45/244,
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Best Local (
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                    A novel T lymphocyte veto molecule is a chimeric molecule comprising a protein, e.g. the present sequence, linked to a targetting polypeptide that binds a molecule, which differentiates a host cell from a tissue graft cell, or selectively targets a stimulator cell involved in the
                                                                                                                                                                         Tlymphocyte veto molecule comprising response cell activating protein linked to molecule that targets stimulator cell marker, used for selective suppression of immune response, e.g. prevention of graft rejection or treatment of auto-immune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human; CD45; T lymphocyte veto molecule; chimeric molecule; targetting polypeptide; suppression; immune response; treat autoimmune disease; allergy; immunological disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 16-OCT-1997.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           transplant rejection.
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                                                                                                                                Claim 37; Page 70-72; 309pp; English.
                                                                                                                                                                                                                                                                                       WPI; 1997-512419/47.
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                                                                                                                                                                                                                                                                                                                                                                                                                             10-APR-1996;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           comprising an HLA-binding peptide of human CD45
                                                                                                                                                                                                                                                                                                                                                                                 (NAJE-) NAT
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         CD45 for use in T lymphocyte veto molecule.
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nilarity 100.
Conservative
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The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription fac polypeptide is useful as an immunogenic composition for elicitin

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Example

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2036; 134pp;

English

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RESULT 3
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           molecule that targets stimulator cells, can be used to suppress an immune response and therefore treat autoimmune diseases, e.g. systemic lupus erythematosus, myasthenia gravis, rheumatoid arthritis, insulin dependent diabetes mellitus, multiple sclerosis, coeliac disease, autoimmune thyroiditis, Addison's or Grave's diseases and rheumatoid carditis, allergies and other immunological disorders. Where the protein binds a molecule that differentiates graft and host cells, the veto molecule can be used to reduce transplant rejection. The veto molecule provides specific regulation of particular stimulator cells that can kill graft cells or respond to autoantigens, but leave other stimulator cells unaffected, e.g. CD4 or CD8 positive cells can be regulated without one affecting the other. The veto molecule can be administered locally to minimise generalised immunosuppression
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            protease; protease inhibitor; cancer; MHC; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; complex; myeloma; complex; myeloma; complex; myeloma;
                                                                                                              New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
                                                                                                                                                                                                                                                                                                                                                                   28-MAR-2002; 2002WO-US009671.
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protease inhibitor; transporter; cytoskeletal
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17-JUL-2000;
03-AUG-2000;
15-SEP-2000;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
The present invention provides the protein and coding sequences of novel proteins from a variety of organisms, including human, dog, cat, horse, cow, pig, hamster, monkey, macaque, yeast, bacteria, fruit fly, sea urchin and tomato. These were derived from expressed sequence tags (ESTs) from the organism of interest. They can be used in diagnostics, forensics, gene mapping, identification of mutations, to assess forensics, and for nutritional purposes. The present sequence is a
                                                                                                                                                                                                                                                                                                                                                                                                               Tang
                                                                                                                                                                                             Claim 20; Page
                                                                                                                                                                                                                                                                                                                                           WPI; 2001-476164/51.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human EST encoded protein SEQ ID NO: 1214.
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                                                                                                                                                                                                                                                                     Isolated
                                                                                                                                                                                                                                                                                                                                                                                                                                                              (HYSE-) HYSEQ
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                                                                                                                                                                                                                                                                                                                                                                                                               YT,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         therapy; nutrition.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        sheep; pig; cow; fruit fly; yeast; hamster; macaque; horse;
; monkey; dog; sea urchin; expressed sequence tag; EST;
stics; forensic test; gene mapping; genetic disorder; biodiversity;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               .1 KLFTAKLNV
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                                                                                                                                                                                                                                                                                                                                                                                      Drmanac RA,
                                                                                                                                                                                                                                          polypeptide for treatment of diseases, diagnostics, raising es and research use.
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; 2000US-00617746.
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; 2000US-00663870.
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Zhang ,
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              The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide, is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class I MRC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma. Lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed
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Best Local
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC--2001; 2001US-0336780P.
20-FBB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Translational profiling; expressed protein tag; EPT; kin protease; protease inhibitor; transporter; cytoskeletal; receptor; transcription factor; cancer; MIC; major histocompatability complex; myeloma; colon cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         treating cancer, e.g. colon cancer, gastric cancer, sarcoma,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              WPI; 2003-040607/03.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    leukemia.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQ ID NO 2034; 134pp; English
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Pred. No.
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                                                     for translational
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immunosuppressant and cytostatic activity. The polymucleotides are useful in gene therapy. A composition containing a polypeptide or polymucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system diseases, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                23-DEC-1999;
21-JAN-2000; 2
25-APR-2000; 2
20-JUN-2000; 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
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                                                                                                                                                                                                           The invention relates to human nucleic acids (AAI57798-AAI61369) and encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                                                                                                                                                                                                                                                                                                                                                                               N-PSDB;
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03-AUG-2000;
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                                                                                                                                                                                                                                                                                                                                                  Novel nucleic acids and polypeptides, useful
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29-NOV-2000;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        peripheral nervous system;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
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                                                                                                                                                                                                                                                                                                                               nervous system
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2000US-00488725.
2000US-00552317.
2000US-00552312.
2000US-00620312.
2000US-0062191.
2000US-0062191.
2000US-00631344.
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IC RT;
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326770P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                            myeloma,
lymphoma
                                                                          fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal proteain, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        protease; protease innibitor, concer; MHC; receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  New polypeptides (e.g. cytoskeletal proteins,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Human expressed protein tag
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                                                                                                                                                                                                                                                                                             The invention describes a purified polypeptide, which comprises fragment of a kinase, phosphatase, protesses
                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     cytoskeletal proteins, receptreating cancer, e.g. colon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     WPI; 2003-040607/03.
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  colon cancer, gastric cancer, adenocarcinoma, sarcoma, or leukaemia. These are also useful for screening agent the above mentioned diseases. This sequence represents
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protease inhibitor; transporter; cytoskeletal protein;
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                                                                                                                                                                                                                                                                                                                                                                                      2035; 134pp;
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Pred. No. 2.5;
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                                                                                                                                            New polypeptides (e.g. kinases, phosphatases, proteases, transport cytoskeletal proteins, receptors or transcription factors), useful treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymph
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Translational profiling; expressed protein tag; EPT; kina protease; protease inhibitor; transporter; cytoskeletal preceptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; colon cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                          Example
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; 2001US-0292544P.
2001US-0310801P.
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The invention describes a purified polypeptide, which comprises a C fragment of a kinase, phosphatase, protease, protease inhibitor, c transporter, cycoskeletal protein, receptor or transcription factor. The C polypeptide is useful as an immunogenic composition for eliciting in a C mammal an immunogenic response directed against any of the purified C polypeptide. The purified polypeptide, or the antibody that binds to this C polypeptide, is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed C class I or class I MHC-binding polypeptide. The polypeptides and C polymucleotides are particularly useful for treating or preventing C myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma C lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
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                                                                                                                                                                                                                                                                                                               WPI;
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04-DEC-2001;
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08-AUG-2001;
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profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly
ftp.wipo.int/pub/published_pct_sequences
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leukaemia.
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04-DEC-2001;
20-FEB-2002;
                                                                              mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing
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21-MAY-2001; 2001US-0292544P
08-AUG-2001; 2001US-0310801P
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                                                                                                                                                                                                                                        rne invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor polypeptide is useful as an immunogenic composition for eliciting in mammal an immunocenic research addresses to the composition for eliciting in mammal an immunocenic research.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of treating cancer, lymphoma o
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colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, or leukaemia. These are also useful for screening agents for the above mentioned diseases. This sequence represents an
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Pred. No.
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21-MAY-2001;
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01-OCT-2001;
fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanlymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      expressed protein tag (EPT) isolated from human tissue for true profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly ftp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Sequence 1143 AA;
                                                                                                                                                                                                                                                            New polypeptides (e.g. cytoskeletal proteins,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Translational profiling; expressed protein tag; EPT; kinase;
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                                                                                                                                                                                                       Example 2;
                                                                                                                                                                                                                                                                                                      WPI; 2003-040607/03
                                                                                                                                                                                                                                                                                                                                  Chicz
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     10-OCT-2002
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 WO200278524-A2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Homo sapiens.
                                                                                                                                                                          The invention
                                                                                                                                                                                                                                                  treating
                                                                                                                                                                                                                                                                                                                                                              (ZYCO-)
                                                                                                                                                                                                                                   eukemia.
                                                                                                                                                                                                                                                                                                                                    RM,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 83
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                                                                                                                                                                                                                                                                                                                                                                ZYCOS
                                                                                                                                                             of a kinase, pl
                                                                                                                                                                                                                                             etal proteins, cancer, e.g. c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             KLFTAKLNV 9
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            standard;
                                                                                                                                                                                                       SEQ ID
                                                                                                                                                                                                                                                                                                                                    Tomlinson
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                                                                                                                                                                                                                                                                                                                                                                                                       2001US-0310801P.
2001US-0326370P.
2001US-0336780P.
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                                                                                                                                                                                                                                                                                                                                                                                            2002US-0358985P
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                                                                                                                                                                                                                                                                                                                                                                                                                                                              2001US-0279495P
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                                                                                                                                                                                                                                                                                                                                                              INC.
                                                                                                                                                                                                       ö
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein; 1143
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                                                                                                                                                                                                      1911; 134pp;
                                                                                                                                                                                                                                                                                                                                  AJ,

    kinases, phosphatases, proteases, transporters,
receptors or transcription factors), useful fo-
colon cancer, gastric cancer, sarcoma, lymphoma

                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 (EPT) isolated from human tissue for translational
                                                                                                                                                                          a purified polypeptide, which comprises
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         0;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (EPT)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Score 43;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Mismatches
                                                                                                                                                                                                       English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          #1911
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 protein;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     gastric cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         <u>,,</u>
                                                                                                                                                                                                                                                   lymphoma or
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          from
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RESULT 12
ADL16232
ID ADL16
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The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP canaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify agents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer); guest vs. host disease; autoimmune diseases; allergy or other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at
                                                                                                                                                                                                                                                                                                                    Identifying reversibly oxidized protein tyrosine phosphatase, useful in screening for specific modulators, potential agents for treating e.g. cancer or autoimmune disease.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-FEB-2002; 2002US-0356810P.
12-FEB-2003; 2003US-00366547.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Sequence 1143 AA;
                                                                                                                                                                                                                                                                                  Disclosure; SEQ ID NO 81; 238pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   13-FEB-2003; 2003WO-EP001446
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21-AUG-2003
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    cell-cycle abnormality;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              inducible signalling pathway; cell proliferation; cancer; guest vs. host disease; autoimmune disease; allergy; metabolic disorder;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  protein tyrosine
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                cytostatic; immunosuppressive; antiallergic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human protein tyrosine phosphatase #27.
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9; Conserv
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   standard;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                phosphatase;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                protein; 1143
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               reversible oxidation; dephosphorylation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
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KLFTAKLNV

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Matches

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RESULT 13
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Query Match
Best Local
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                                                                   The invention relates to a novel method for detecting soft tissue sarcoma which comprises obtaining a first soft tissue sample from an individual and a normal soft tissue sample from the same or different individual, determining the expression of a gene in both samples and comparing the expression of the gene in both soft tissue samples and comparing the expression in the first soft tissue sample indicates the presence of soft tissue sarcoma. The method of the invention has cytostatic applications and may be useful for detecting soft tissue sarcoma, possibly via gene therapy or vaccine production. The nucleic acid sequences may be useful in diagnostic and screening applications. The current sequence is that of a human soft tissue sarcoma upregulated protein of the invention. The current sequence is not shown within the specification per se but was submitted in CD format by the inventor.
                                                                                                                                                                                                                                                                                                                          Early detection of soft tissue sarcoma comprises determining expression of a gene in a first soft tissue sample and a normal soft tissue sample and comparing the gene expression, also useful in treating soft tissue
                                            Sequence 1143
                                                                                                                                                                                                                                                                                                                                                                                                                    Aziz N,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Sequence 1143 AA;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              26-NOV-2002; 2002US-0429739P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Human soft tissue sarcoma-upregulated protein -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        26-AUG-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       abnormalities. This sequence represents one of the PTP enzyme of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                  (PROT-) PROTEIN DESIGN LABS INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          26-NOV-2003; 2003WO-US038193
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   Similarity
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Similarity 9; Conser
                                                                                                                                                                                                                                                                                                                                                                                                                  Ginsburg WM,
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                                                                                                                                                                                                                                                                                  SEQ ID NO 1664; 210pp;
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 100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                     Zlotnik A;
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Score 43;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Score 43;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Mismatches
                                                                                                                                                                                                                                                                                  English.
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   4.6;
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               8
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               Length 1143;
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RESULT 14
AAM41048
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Best Local S
Matches 9
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Wang
                                                                                                           immunosuppressant and cytostatic activity. The polynucleotides are useful in gene therapy. A composition containing a polypeptide or polynucleotide of the invention may be used to treat diseases of the peripheral nervous system, such as peripheral nervous injuries, peripheral neuropathy and localised neuropathies and central nervous system disease, such as Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic lateral sclerosis, and Shy-Drager Syndrome. Other uses include the utilisation of the activities such as: Immune system suppression, Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, cancer diagnosis and therapy, drug screening, assays for receptor activity, arthritis and inflammation, leukaemias and C.N.S disorders. Note: The sequence data for this patent did not form part of the printed specification
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              03-AUG-2000; 2000US-00653450.
14-SEP-2000; 2000US-00662191.
19-OCT-2000; 2000US-00693036.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       23-DEC-1999; 99US-00471275.
21-JAN-2000); 2000US-00488725.
25-APR-2000); 2000US-00552317.
20-JUN-2000); 2000US-00598042.
19-JUL-2000); 2000US-00620312.
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                                                                                   Sequence 1149
                                                                                                                                                                                                                                                                                                    The invention relates to human nucleic acids (AAI57798-AAI61369) and the encoded polypeptides (AAM38642-AAM42213) with nootropic,
                                                                                                                                                                                                                                                                                                                                                                          as central nervous system
                                                                                                                                                                                                                                                                                                                                                                                    Novel nucleic acids and polypeptides, useful
                                                                                                                                                                                                                                                                                                                                                                                                                     N-PSDB;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Homo sapiens.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        peripheral nervous system, neuropathy, central nervous system; CNS; Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic; amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemostactic; chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Human polypeptide SEQ ID NO
                                                                                                                                                                                                                                                                                                                                                 Example
                                                                                                                                                                                                                                                                                                                                                                                                                                    WPI; 2001-442253/47.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      (HYSE-) HYSEQ INC.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             leukaemia.
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                          Similarity 9; Conserved
                                                                                                                                                                                                                                                                                                                                              2; SEQ ID NO 5979; 10078pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                           Wang Z, Weh
Goodrich R,
                             Conservative
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Wehrman T,
                                         100.0%;
                                                                                                                                                                                                                                                                                                                                                                                                                                                              undi V, Chen R,
hrman T, Xu C,
Drmanac RT;
                                                                                                                                                                                                                                                                                                                                                                          injuries.
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                            0
                                        Score 43; DB Pred. No. 4.6;
                            Mismatches
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Xue
                                                       DB 4;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Qian XB,
Yang Y,
                                                                                                                                                                                                                                                                                                                                                                                       for treating disorders such
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                                                       Length 1149;
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Zhang
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Conservative

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Length 1149; Indels

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Query Match
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21-MAY-2001;
08-AUG-2001;
01-OCT-2001;
04-DEC-2001;
                                                                                                                                                                                                                                                                                                                                                                                                                        The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to this polypeptide, is useful for treating core. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polypucleotides are particularly useful for treating or preventing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         protease; protease inhibitor, receptor; transcription factor; cancer; MHC; major histocompatability complex; myeloma; comalenocarcinoma; sarcoma; melanoma; lymphoma;
                                                                                                                                                       Sequence
                                                                                                                                                                                                                                          expressed protein tag (EPT) isolated from human tissue for tra
profiling. Note: This sequence does not appear in the printed
specification but was obtained in electronic format directly i
                                                                                                                                                                                                                                                                                                                                      myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of the cancer cancer, gastric cancer, sarcoma, lymphoma of the cancer c
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         ABU05242;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Example 2;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Homo sapiens.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Human expressed
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                                                                                                                                                                                                          tp.wipo.int/pub/published_pct_sequences
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 ZYCO-)
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                                                                                                                                                           1149
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQ ID NO 1908; 134pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Tomlinson
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       ; 2001US-0279495P.; 2001US-0292544P.; 2001US-0310801P.; 2001US-0326370P.; 2001US-0336780P.; 2002US-0358985P.
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                                                                                                                                                       AA;
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RESULT 16
ADR39747
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nacha SD, Lee SY, ...
                                                                             nootropic, neuroprotective, cerebroprotective, anti-HIV, antiallergic, antinifianmatory and thyromimetic activities, and can be used in gene therapy. The human KPP proteins and polynucleotides can be used in diagnosing, treating and preventing diseases or conditions associated with the decreased expression or overexpression of KPP, such as cell proliferative (e.g. cancer, atherosclerosis), neurological (e.g. epilepsy, Huntington's disease, stroke), immune/inflammatory (e.g. AIDS, allergies) and developmental (e.g. Hypothyroidism, Cushing's syndrome) disorders, or infections. They can also be used in assessing the effects of exogenous compounds on the expression of nucleic acid and amino acid sequences of KPP. The KPP or its fragments are useful in screening
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          20-FEB-2003; 2003US-0449059P.
19-MAR-2003; 2003US-0456932P.
28-MAR-2003; 2003US-045844P.
09-APR-2003; 2003US-0461678P.
17-APR-2003; 2003US-0463937P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              human; kinase and phosphatase protein; KPP; enzyme; cytostatic; antiarteriosclerotic; anticonvulsant; nootropic; neuroprotective; cerebroprotective; anti-HIV; antiallergic; antiinflammatory; thyromimetic; gene therapy; cell proliferative disorder; cancer; atherosclerosis; neurological disorder; epilepsy; Huntington's disease; stroke; immune disorder; inflammatory disorder; AIDS; allergy;
                                                                                                                                                                                                                                                                                                                                                                                        New human kinases and phosphatases (KPP) for diagnosing, treating and preventing diseases or conditions associated with aberrant KPP expression e.g. cancer, acquired immunodeficiency syndrome, epilepsy, or infections.
                                                                                                                                                                                                                                                                                The present sequence represents the human kinase and phosphatase p (KPP), designated KPP-20. The human KPP sequences from the present invention have cytostatic, antiarteriosclerotic, anticonvulsant,
                                                                    compounds for effectiveness as agonist or antagonist of the polypeptides
                                                                                                                                                                                                                                                                                                                                                        Claim 1;
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                                 in altering the export specifically bind
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DB; ADR39793.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phosphatase KPP-20 protein SEQ ID
                                 expression of the target polynucleotide and compounds sind to or modulate the activity of the polypeptide.
                                                                                                                                                                                                                                                                                                                                                     20; 299pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      s JP, Swarnakar A, Chawla NI
Hafalia AJA, Richardson TW,
, Gorvad AE;
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RESULT 17
ADQ39378
ID ADQ39
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                                                comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This
                                                                                                                                                                                                                                                                                                   altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequences given in the specification; an isolated polypeptide
                                                                                                                                                                                                                                                                                                                                                                                                      The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               20-DEC-2002[5-0434778P
10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
sequence represents the protein of a human myocardial infarction-
associated gene containing one or more SNP's of the invention. No
sequence was not shown in the specification. The sequence has com
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Claim 10; SEQ ID NO 1041; 145pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                N-PSDB;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the individual's nucleic
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9; Conserv
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                  Note:
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electronic sequence listing downloaded from the WIPO website.

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RESULT 18
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                                                 This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti-
co-besity pharmaceutical compositions. Specifically, it refers to a high co-besity proup I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein furthermore, it refers to the ob-gene where an allowing the protein describes performing differential gene expression analysis invention describes performing differential gene expression analysis.

Compounds that adipose tissue (WAT) or stromal vascular tissue (SVT) of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were condentified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, hypertension and cardiovascular disease, as well as screening for compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and hypotensive activities. This polypeptide sequence is a human homologue of a myring adipositions are shipit anorectic, antidiabetic and such can be activities. This polypeptide sequence is a human homologue of a myring adipositions are shipit anorectic.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Matches
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Best Local
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                                                                                                                                                                                                                                                                                                                                                                                                                                                      Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  human; adipocyte specific; adipose tissue; anti-obesity; high mobility group I-C protein; HMGI-C; obesity; leptin; ob; diabetes; adipogenesis; hypertension; cardiovascular disease; anorectic; antidiabetic; hypotensive; PTPase receptor type C.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Human adipocyte specific PTPase receptor type C protein SeqID
                                                                                                                                                                                                                                                                                                                                                                                                                 Disclosure; SEQ ID NO 541; 91pp; English.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chada K,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               29-JUL-2002; 2002US-0398785P
12-JUN-2003; 2003US-0478206P
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  05-FEB-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            (HMGE-) HMGENE INC
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           29-JUL-2003; 2003WO-US023684
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              2004-143846/14.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ADM66908
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Chouinard R,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Conservative
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          (first entry)
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 100.0%;
                                     specific protein sequence of the invention.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Ashar H,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            .0%;
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Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Mismatches
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Sequence 1256 AA

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Best Local Similarity
Matches 9; Conserv
                                           Query Match
Best Local
                               Matches
                                                                                                                              transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an xenotransplant rejection or mechanical organ replacement rejection, in an individual. The method is also useful in assessing the immune status of an individual. The methods are also useful in diagnosing and monitoring diseases that involve the immune system, e.g. rheumatoid arthritis, lungus, inflammatory bowel diseases, multiple sclerosis, HIV/AIDS or viral, bacterial or fungal infection. The present sequence represents a protein encoded by an mRNNA sequence of the invention which show altered
                                                                                                                                                                                                                                                                                                                                                                              Diagnosing or monitoring transplant rejection, e.g. heart, kidney, liver, pancreas, pancreatic islet, lung, bone marrow or stem cell transplant rejection, in an individual, comprises detecting the expression level of
                                                                                       Sequence 1256
                                                                                                                                                                                                                                                               The present invention relates to diagnosing or monitoring transplant rejection, e.g. cardiac or kidney transplant rejection, in an individual comprises detecting the expression level of one or more genes. The methods, system and kits are useful in diagnosing or monitoring
                                                                                                                                                                                                                                                                                                                                       Claim
                                                                                                                                                                                                                                                                                                                                                                                                                                         WPI; 2004-400724/37.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Protein encoding referenece
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                                                                                                                    expression
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20-DEC-2002;
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                                             Similarity
   KLFTAKLNV 9
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                                                                                                                    in renal transplantation and expression.
                              Conservative
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2002US-00325899.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    rheumatoid
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RESULT 20
ADQ39376
ID ADQ39
comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequence given in the specification; an antibody comprising an amino acid sequence given in the specification; an antibody fragment; an amplified polynucleotide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a method of detecting an SNP in a mucleic acid molecule; a method of detecting an SNP in a mucleic acid molecule; and a method of detecting an SNP in a mucleic acid molecule; a method of detecting an SNP in a method of detecting an SNP in a micleic acid molecule; a method of detecting an SNP in a micleic acid molecule; a method of detecting an SNP in a micleic acid molecule; a method of detecting an SNP in a micleic acid molecule; a method of detecting an SNP in a micleic acid molecule; a method of detecting an SNP in a micleic acid molecule; a method of detecting an SNP in a micleic acid molecule; a method of detecting and a method of det
                                           The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-associated gene containing one or more SNP's of the invention. Note: T sequence was not shown in the specification. The sequence has come from electronic sequence listing downloaded from the WIPO website.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            20-DEC-2002; 2002US-0434778P.
10-MAR-2003; 2003US-0453139.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The invention relates to a novel method for identifying an individual who
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  22-DEC-2003; 2003WO-US040978
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          cardiant; gene therapy; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Myocardial infarction; detection; single nucleotide polymorphism; SNP;
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Sequence 1258 AA;

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                                                                                                                                                                altered risk for myocardial infarction in the individual. The invention if further comprises an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino acid sequence given in the specification; an isolated polypeptide comprising an amino acid sequence given in the specification; an antibody that specificatly binds to the polypeptide or its antigen-binding that specification and which is between about 16 and 1000 nucleotides in 12 capture and which is between about 16 and 1000 nucleotides in 12 capture acid molecule; a method of detecting an SNP in a nucleic acid, comprising the nucleic acid molecule; a method of detecting an SNP in a nucleic acid molecule; a method of detecting an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity.
                                                                     The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction-
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10-MAR-2003; 2003US-0453135P
30-APR-2003; 2003US-0466412P
23-SEP-2003; 2003US-0504955P
                                  associated gene containing one or more SNP's of the invention. Note: The sequence was not shown in the specification. The sequence has come from
                                                                                                                                                                                                                                                                                                                                                                                                                                                the nucleotide sequences given in the specification in the individu nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     has an altered risk for developing myocardial infarction. (comprises detecting a single nucleotide polymorphism (SNP)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Claim 10; SEQ ID NO 1042; 145pp; English
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        N-PSDB; ADQ38551.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       has an altered risk
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              The invention relates to a novel method for identifying an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           the individual's nucleic acids.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Cargill M,
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                sequence
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                from the
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              individual who
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                                                                                                                                                                                                                                                                                                                               an antibody
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Sequence 1267 AA

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RESULT 22
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          myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, lymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational profiling. Note: This sequence does not appear in the printed specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
                                                                                                                         The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, protease, protease inhibitor, transporter, cytoskeletal protein, receptor or transcription factor. polypeptide is useful as an immunogenic composition for eliciting in mammal an immunogenic response directed against any of the purified polypeptide. The purified polypeptide, or the antibody that binds to polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MHC-binding polypeptide. The polypeptides and polynucleotides are particularly useful for treating or preventing
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801R
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780R.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Translational profiling; expressed protein tag; EPT; kinase; phosphatase; protease; protease inhibitor; transporter; cytoskeletal protein; receptor; transcription factor; cancer; mHC; major histocompatability complex; myeloma; colon cancer; gastric cancer; adenocarcinoma; sarcoma; melanoma; lymphoma; leukaemia.
                                                                                                                                                                                                                                                                                                                                                           New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma
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Pred. No.
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      The invention describes a purified polypeptide, which comprises a CC fragment of a kinase, phosphatase, protease, protease inhibitor, CC transporter, cytoskeletal protein, receptor or transcription factor. The CC polypeptide is useful as an immunogenic composition for eliciting in a CC mammal an immunogenic response directed against any of the purified copypeptide. The purified polypeptide, or the antibody that binds to this CC polypeptide, is useful for treating cancer. The polypeptide is also CC useful for identifying compounds that binds to a naturally processed CC class I or class II MHC-binding polypeptide. The polypeptides and CC polymucleotides are particularly useful for treating or preventing CC myeloma, colon cancer, gastric cancer, adenocarcinoma, sarcoma, melanoma, CC lymphoma or leukaemia. These are also useful for screening agents for CC treating the above mentioned diseases. This sequence represents an CC expressed protein tag (EPT) isolated from human tissue for translational CC specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
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Matches
                                                                                                                                                                                                                                                                                                                                                   New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cytoskeletal proteins, receptors or transcription factors), useful for treating cancer, e.g. colon cancer, gastric cancer, sarcoma, lymphoma of
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04-DEC-2001;
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08-AUG-2001;
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9; Conserv
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       The invention describes a purified polypeptide, which comprises a fragment of a kinase, phosphatase, procease, procease inhibitor. The crasporter, cytoskeletal protein, receptor or transcription factor. The polypeptide is useful as an immunogenic composition for eliciting in a mammal an immunogenic response directed against any of the purified polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to this polypeptide, is useful for treating cancer. The polypeptide is also useful for identifying compounds that binds to a naturally processed class I or class II MMC-binding polypeptide. The polypeptides and polymucleotides are particularly useful for treating or preventing myeloma, colon cancer, gastric cancer, adenocarcinoma, sercoma, melanoma, Iymphoma or leukaemia. These are also useful for screening agents for treating the above mentioned diseases. This sequence represents an expressed protein tag (EPT) isolated from human tissue for translational specification but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
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21-MAY-2001; 2001US-0292544P.
08-AUG-2001; 2001US-0310801P.
01-OCT-2001; 2001US-0326370P.
04-DEC-2001; 2001US-0336780P.
20-FEB-2002; 2002US-0358985P.
                                                                                                                                                                                                                                                                                                                                                                                New polypeptides (e.g. kinases, phosphatases, proteases, transporters, cretoskeletal proteins, receptors or transcription factors), useful for transcription factors, useful for transcription factors, useful for transcription factors, sarcoma, lymphoma
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9; Conserv
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RESULT 25
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ADL16230
AC ADL16
AC ADL16
AC ADL16
AC ADL16
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Best Local S
Matches 9
                                                                                                                                                                          The invention relates to a method for identifying a protein tyrosine phosphatase (PTP) that is reversibly oxidized in a cell by: (i) subjecting a sample, including a cell that contains at least one PTP, to conditions that cause reversible oxidation of PTP; (ii) isolating PTP anaerobically, in presence of a sulfhydryl-reactive agent (II) that irreversibly modifies the thiol group of an invariant Cys in the active site of PTP; and (iii) determining, under reducing conditions, the level of dephosphorylation, caused by PTP, of a labelled substrate (III), where dephosphorylation indicates that an active PTP is present. No details of tests for these activities are given. The method is used to identify reversibly oxidized PTP, also to identify segents that: (a) reversibly modify such PTP; or (b) alter inducible signalling pathways in which PTP are involved. These agents are potentially useful, in human or veterinary medicine, for treating abnormal cell proliferation or growth (cancer);
                                                                                       are involved. These agents are potentially useful, in human on medicine, for treating abnormal cell proliferation or growth guest vs. host disease; autoimmune diseases; allergy or other immunosuppressed states; metabolic disorders and cell-cycle abnormalities. This sequence represents one of the PTP enzyme
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N-PSDB;
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cancer or
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12-FEB-2003; 2003US-00366547.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Identifying reversibly oxidized protein tyrosine phosphatase, useful screening for specific modulators, potential agents for treating e.g
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   (COLD-) COLD SPRING HARBOR LAB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          244 KLFTAKLNV
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    autoimmune disease.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          phosphatase
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5.3;
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Sequence 1304

DB 7; Length 1304;

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RESULT 26
ADP65158
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CC patient sample containing mRNA, analysing gene expression using the mRNA CC that results in a gene expression signature of the mRNA, and using that Gene expression signature to diagnose or analyse the autoimmune disease CC or arthritides in the patient, where gene expression of at least 60% of CC the genes correlates with that of the gene signature. The invention CC further comprises: a treatment of rheumatoid arthritis; identification of CC genes for targeting in the treatment of rheumatoid arthritis in a mammal CC enter than a mouse; diagnosis of rheumatoid arthritis; diagnosis or CC analyses of autoimmune disease or rheumatoid arthritis; diagnosis or CC analyses of autoimmune disease or rheumatoid arthritis; diagnosis or CC induced arthritis; and reducing the symptoms associated with collagen-CC induced arthritis; and reducing the symptoms associated with collagen-CC induced arthritis; are compositions of the invention have the following activities: immunosuppressive, antirheumatic, antiarthritic, osteopathic, CC antigout, antinflammatory, dermatological, and immunomodulatory. The CC diagnosing and treating autoimmune disease or arthritides, such as Theomyalgia, osteopathritis, jupus, anxylosing spondylitis, fibrositis, and an immune disease caused by an infectious agent. This sequence represents a protein sequence relating to the genes used in the analysis and treatment
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Best Local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Diagnosing and analyzing autoimmune disease using gene expression profiles and microarray technology, useful for diagnosing and treating rheumatoid arthritis, lupus, fibrositis, osteoarthritis, fibromyalgia and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          WPI; 2003-712740/67.
GENBANK; NP_002829.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       rheumatoid arthritis; collagen-induced; immunosuppressive; antirheumatic; antiarthritic; osteopathic; antigout; antiinflammatory; dermatological; immunomodulatory; lupus; ankylosing spondylitis; Fibrositis; fibromyalgia; osteoarthritis; gout; juvenile rheumatoid arthritis;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   autoimmune disease; arthritide; gene
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Human protein tyrosine phosphatase, receptor type,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                12-AUG-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                  The invention relates to a novel method for diagnosing and analysing autoimmune disease or arthritides. The method comprises obtaining a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             WO2003072827-A1
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         immune; human.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          244 KLFTAKLNV 252
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          protein; 1304 AA
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RESULT 27
ADM67209
ID ADM677209
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AC ADM6
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This invention relates to a novel method for identifying genes that are cover-expressed in adipose tissue and as such it provides targets for anti co-obesity pharmaceutical compositions. Specifically, it refers to a high combility group I-C protein (HMGI-C) that is associated with obesity and combility group I-C protein, furthermore, it refers to the ob gene where an composition describes performing differential gene expression analysis invention describes performing differential gene expression analysis between the white adipose tissue (WAT) or stromal vascular tissue (SVT) composed that are adipose tissue of the gene expression analysis of any two different mice selected from a group consisting of wild-type, this method novel nucleotides and the encoded proteins thereof were identified that are adipocyte specific, and as such can be used for preventing adipogenesis, diagnosing and treating diabetes, obesity, compounds that can modulate or prevent adipogenesis and treat diabetes or obesity. These compositions exhibit anorectic, antidiabetic and compositions exhibit anorectic, antidiabetic and treatisive activities. This polypeptide sequence is a human homologue of components adipocyte specific protein sequence of the invention.
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Matches
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Identifying adipocyte specific genes, useful for treating obesity or diabetes, and for identifying drug targets, by differential gene expression analysis between adipose tissue or stromal vascular tissue mice of different genotypes.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Disclosure;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Chada K,
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12-JUN-2003;
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9; Conserv
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2003US-0478206P.
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hypertension;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               NO 563; 91pp; English
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Pred. No.
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                                            The invention relates to an isolated nucleic acid comprising at least 10 contiguous nucleotides of any of the 233 polynucleotide sequences given in the specification, or its complement. The nucleic acids encode cancerassociated proteins. Also included are an expression vector comprising the isolated nucleic acid cited above, a host cell comprising the above recombinant nucleic acid or expression vector, a microarray for detecting a cancer-associated (CA) nucleic acid comprising at least one probe comprising at least 10 contiguous nucleotides of any of the abovementioned nucleotide sequences, an isolated polypeptide (encoded within an open reading frame of a CA sequence selected from any of the 95 polynucleotide sequences as mentioned in the specification, or its complement), an isolated antibody, (or its antigen binding fragment) that binds to the above polypeptide, a hybridoma that produces the above monoclonal antibody, a pharmaceutical composition comprising the above antibody and a pharmaceutical excipient, a kit for detecting cancer cells (comprising the antibody cited above, methods for diagnosing cancer individual a method for inhibiting aroust he feareer cells in an antibod.
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14-MAR-2003; 2003US-0038838.
15-APR-2003; 2003US-0041375.
13-JUN-2003; 2003US-00461862.
15-SEP-2003; 2003US-00663431.
15-DEC-2003; 2003US-00737318.
                                                                                                                                                                                                                                                                                                                                                                                            New isolated cancer-associated polynucleotides and polypeptides useful for diagnosing, preventing or treating cancers, especially lymphoma an leukemia, or in screening for agents that modulate cancer.
                                                                                                                                                                                                                                                                                                                                                                 claim 18;
                     individual, a method
individual, a method
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9; Conserv
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Morris DW,
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for inhibiting growth of cancer cells in for delivering a therapeutic agent to car electronic library comprising the above
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                 therapeutic agent to cancer cells
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                                                                                                                                                                                                                                                                                                                                                             Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorphism in the individual's nucleic acids.
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10-MAR-2003; 2003US-045313P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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N-PSDB; ADQ38552.
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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nuclectide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an altered risk for myocardial infarction in the individual. The invention further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in the specification or its complement and encoding any one of the amino the specification or its complement and encoding any one of the amino

Claim

10; SEQ ID NO 1043; 145pp; English.

the specification or acid sequences given

polypeptide

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comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in length; a kit for detecting an SNP in a nucleic acid, comprising the polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid molecule; a method of detecting a variant polypeptide; and a method for identifying an agent useful in treating or preventing myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The method is useful in identifying an individual who has an increased or decreased risk for developing myocardial infarction and for preparing a composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from a electronic sequence listing downloaded from the WIPO website.
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The invention relates to a novel method for identifying an individual who has an altered risk for developing myocardial infarction. The method comprises detecting a single nucleotide polymorphism (SNP) in any one of the nucleotide sequences given in the specification in the individual's nucleic acids, where the presence of the SNP is correlated with an
                                                                                                                                                                                                                                                                           Identifying an individual who has an altered risk for developing myocardial infarction by detecting a single nucleotide polymorph the individual's nucleic acids.
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10-MAR-2003; 2003US-045313P.
30-APR-2003; 2003US-0466412P.
23-SEP-2003; 2003US-0504955P.
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                                                                                                                                                                                                                Claim 10;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Cargill M, Devlin JJ,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     15-JUL-2004.
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                                                                                                                                                                                                                                                                                                                                                                                                              2004-533949/51.
DB; ADQ38547.
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                                                                                                                                                                                                         ID NO 1038; 145pp; English.
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CC altered risk for myocardial infarction in the individual. The invention CC further comprises: an isolated nucleic acid molecule comprising at least 8 contiguous nucleotides where one of the nucleotides is an SNP given in CC the specification or its complement and encoding any one of the amino CC acid sequences given in the specification; an isolated polypeptide CC comprising an amino acid sequence given in the specification; an antibody that specifically binds to the polypeptide or its antigen-binding CC fragment; an amplified polynucleotide containing an SNP given in the specification and which is between about 16 and 1000 nucleotides in CC polynucleotide, a buffer and an enzyme; a method of detecting an SNP in a nucleic acid, comprising the CC mucleic acid molecule; a method of detecting a variant polypeptide; and an CC mucleic acid molecule; a method of detecting a variant polypeptide; and CC myocardial infarction. The novel detection method has cardiant activity. The nucleic acids of the invention may be used in gene therapy. The CC method is useful in identifying an individual who has an increased or CC composition for treating or preventing myocardial infarction. This sequence represents the protein of a human myocardial infarction. Note: This sequence was not shown in the specification. The sequence has come from the wirth who have the protein of a human myocardial infarction.
Sequence 1306 AA;
                                                                an electronic
                                                                sequence listing downloaded from the WIPO website.
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밁 Ś 246 1 KLFTAKLNV KLFTAKLNV 254 9

Matches Query Match Best Local

Similarity 9; Conser

Conservative

100.0%; 0,

Score 43; DB Pred. No. 5.3; Mismatches

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Search completed: May 3, 2005, 07:35:21
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1: uniprot_sprot:*
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Copyright (c) 1993 - 2005 Compugen Ltd.
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      DB
   Q8MJQ3
Q7MKN3
Q6PDK7
Q6ED60
Q6ED61
Q6ED62
Q6ED62
CD45_HUMAN
Q99WU
Q7A7S0
Q6GC16
Q6GC26
Q6GK25
Q6GK25
Q825Z3
Q9CX8
Q9XV10
Q649H3
P87638
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actus vocif
RESULT 2
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ID Q7MXN3
AC Q7MXN3;
PRELIMINARY;
AC Q7MXN3;
DT 01-MAR-2004 (TrEMBLrel. 26,
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RC TISUE-Primary B-Cells;

RX MEDLINE-22388257; pubMede12477932; DOI=10.1073/pnas.242603899;

RX Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,

RX Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,

RX Klausner R.D., Collins F.S., Wagner L., Schaefer C.F., Bhat N.K.,

RX Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RX Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,

RX Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,

RX Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

RX Altschul S.F., Jordan H., Moore T., Max S.I., Wang J., Hong L.,

RX Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,

RX Stapleton M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.J.,

RX Altschul S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullahy S.J.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.J.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.J.,

RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.J.,

RA Brownstein M.J., Wadin T.B., Toshiyuki S., Carninci P., Prange C.J.,

RA Brownstein M.J., Wale R.J., Abramson R.D., Mullahy S.J.,

RA Brownstein M.J., Wale R.J., Malek J.A., Gunaratne P.H.,

RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,

RA Willalon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Willialon D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,

RA Whiting M., Madan A., Young A.C., Shevchenko Y., Bouffard G.G.,

RA Hakesley R.W., Touchman J.W., Green E.D., Dickson M.C.,

RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S.,
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Q6PJK7;
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DOI=10.1128/JB.185.18.5591-5601.2003;

Nelson K.E., Fleischmann R.D., DeBoy
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Membrane-bound lytic murein transglycosylase D, put
OrderedLocusNames=PG0139;
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05-JUL-2004 (TrEMBLrel.
05-JUL-2004 (TrEMBLrel.
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J. Bacteriol. 185:5591-5601(2003).
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Mammalia; Eutheria;
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InterPro; IPR008258; SLT.
InterPro; IPR000189; Trans;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Score 40;
Pred. No.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       PRT;
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(class); Bacteroidales;
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RESULT 4
Q6ED60
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Best Local S
Matches 9
                                Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_Dhosphatase; 2
PRINTS; PR00700; PRTYPHPHTASE.
PRART; SM00060; FN3; 2.
SMART; SM00104; PTDC; 2.
SMART; SM00404; PTDC motif; 2.
PROSITE; PS50853; FN3; 2.
                                                                                                                                                                                                                                                                                                                                             Q6ED60;
Q6ED60;
25-OCT-2004
25-OCT-2004
25-OCT-2004
 PROSITE;
PROSITE;
PROSITE;
PROSITE;
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SMART; SM00060; FN3; 2.
SMART; SM00194; PTPC; 1.
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HSSP; P18031; 1AAX.
GO; GO:0004725; F:protein tyrosine
GO; GO:0006470; F:protein amino aci
InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        PROSITE; PS50853; FN3; 2.
PROSITE; PS50855; TYR PHOSPHATASE_PTP; 1.
PROSITE 756 756
SEQUENCE 756 AA; 85430 MW; 8A9A863827
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y_phosphatase;
PRINTS; PR00700; PRTYPHPHTASE
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                                                                                                                                                                       Tissue Antigens 64:165-172(2004).

EMBL; AY445818, AAS66903.1; -.

GO: GO:0004725; F:protein tyrosine phosphatase activity;

GO; GO:0006470; P:protein amino acid dephosphorylation; 1
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                                                                                                                                                                                                                                                                                                 Eukaryota; Metazoa;
Mammalia; Eutheria;
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Jones S.J., Marra M.A.;
                                                                                                                                                                                                                                          Montoya G.
                                                                                                                                                                                                                                                                                     NCBI_TaxID=57176;
                                                                                                                                                                                                                                                                                                                         Aotus vociferans
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                                                                                                                InterPro;
                                                                                                                         InterPro;
                                                                                                                                                InterPro;
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"Comparative analysis of CD45 protein
                                                                                                                                                                                                                                                     PubMed=15245371
                                                                                                                                                                                                                                                                 SEQUENCE FROM N.A.
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); IPR003957; FN III-1ike.
); IPR003595; PTPC motif.
); IPR000387; TYR phosphatase.
); IPR000242; Tyr PP.
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                       PS00383;
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IPR000242; Tyr_PP.
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TYR_PHOSPHATASE_1; 2
TYR_PHOSPHATASE_PTP;
TYR_PHOSPHATASE_PTP;
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Primates;
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A
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Last
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Pred. No.
                                                                                                                                                                                                                                                                                                 Craniata; Vertebrata; Platyrrhini; Cebidae;
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annotation update)
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Aotinae; Aotu
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Best Local S
Matches 9
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                                                                                                                                                                                                                                                                    Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y phosphatase; 2.

Pfam; PF00100; PRTYPHPHTASE.

SMART; SM00060; PN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC motif; 2.
                                               25-OCT-2004
25-OCT-2004
25-OCT-2004
                                                                           Q6ED62;
Eukaryota; Metazoa;
Mammalia; Eutheria;
NCBI_TaxID=57175;
                                                                                                                                                                                                                            SMART; SM00404; PTPC motif; 2.

PROSITE; PSS0853; FN3; 2.

PROSITE; PSS00383; TYR PHOSPHATASE 1; 2.

PROSITE; PSS0056; TYR PHOSPHATASE 2; 2.

PROSITE; PSS0055; TYR_PHOSPHATASE_PTP; 2.
                          Aotus nigriceps (Black-headed owl monkey)
                                                                                                                                                                                                                                                                                                                          InterPro; IPR003961; FN_III. InterPro; IPR008957; FN_III-lke. InterPro; IPR003959; PTPC_motif. InterPro; IPR000387; TYR_phosphatase. InterPro; IPR000242; Tyr_PP.
                                                                                                                                                                                                                SEQUENCE
                                                                                                                                                                                                                                                                                                                                                                               <u>გ</u>
                                                                                                                                                                                                                                                                                                                                                                                                 Tissue Antigens 64:165-172(2004).
EMBL; AY445817; AAS06902.1; -.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                        SEQUENCE FROM N.A.
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Eukaryota; Metazoa; Chordata; Crani
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Platyrrhini; Cebidae;
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25-OCT-2004
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          Chordata;
Primates;
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Pred.
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Pred. No. 70;
0; Mismatches
          Craniata; Ver
Platyrrhini;
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        Vertebrata; Euteleostomi;
ni; Cebidae; Aotinae; Aotu
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Aotinae; Aotu
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         Aotus.
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REPRESENTATE REPRESENTATION OF THE PROPERTY OF
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CD45_HUMAN
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Best Local S
Matches 9
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Pfam; PF00041; fn3; 2.

Pfam; PF00102; Y_phosphatase; 2.

Pfam; PF001700; PRTYPHPHTASE.

SMART; SM00060; FN3; 2.

SMART; SM00194; PTPC; 2.

SMART; SM00404; PTPC; motif; 2.

SMART; SM00404; PTPC; motif; 2.

PROSITE; PS50053; FN3; 2.

PROSITE; PS00383; TYR_PHOSPHATASE 1; 2.

PROSITE; PS50056; TYR_PHOSPHATASE_2; 2.

PROSITE; PS50055; TYR_PHOSPHATASE_PTP; 2.
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                                                                                                                                 TISSUE=Pl
                                                                                                                                                                                                                             antigen).
EMBO J. 6
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MEDLINE=88061067; PubMed=2824653;
Streuli M., Hall L.R., Saga Y., Schlossman S.F., Saito H.;
"Differential usage of three exons generates at least five manns, encoding-human-leukocyte common antigens.";
"Exp. Med-166:1548=1566(1987).
MEDLINE=89009812; PubMed=2971730;
Hall L.R., Streuli M., Schlossman S.F.,
"Complete exon-intron organization of tantigen (CD45) gene.";
                                                                                                                                                                                                                                                                                                                                                    SEQUENCE FROM N.A. (ISOFORM 2), A MEDLINE=87275816; PubMed=2956090;
                                                                                                                                                                                                                                                                                                                             Ralph S.J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          SEQUENCE FROM N.A. (ISOFORM 1), AND ALTERNATIVE SPLICING
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Eukaryota; Metazoa; Chordata; Craniata; Vertebrata;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hydrolase.
SEQUENCE
                                                                                                                                                                                                                                                                                              "Structural
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          NCBI_TaxID=9606;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Homo sapiens
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Name=PTPRC; Synonyms=CD45;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Tissue Antigens 64:165-172(2004).
EMBL; AY445816; AAS06901.1; -.
GO; GO:00047725; F:protein tyrosine
GO; GO:0006470; P:protein amino aci
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     "Comparative analysis of CD45 protein vs. human.";
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              SEQUENCE FROM N.A. PubMed=15245371;
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                                                                                                                                                                OF 191-1304 FROM
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IPR008957; FN III-like.
IPR003595; PTPc motif.
IPR000387; TYR phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          IPR000242; Tyr_PP.
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id dephosphorylation;
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                                                                Saito
                                  human
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                EMBO
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MEDLINE=9031603; PubMed=1695146;
Streuli M., Krueger N.X., Thai T., Tang
"Distinct functional roles of the two i
domains of the receptor-linked protein
                                                                                                                                                                                                                                            EMBL;
                                                                                                                                                                                                                                                                                                                                                                                 or send an email to license@isb-sib.ch).
                EMBL;
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      IsoId=P08575-2; Sequence=VSP_007780; PTM: Heavily N- and O-glycosylated. SIMILARITY: Belongs to the protein-tyrosine Receptor class 1/6 subfamily.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SIMILARITY: Contains 2 protein-tyrosine phosphatase DATABASE: NAME=PROW; NOTE=CD guide CD45 entry; WWW="http://www.ncbi.nlm.nih.gov/prow/cd/cd45.htm".
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             SIMILARITY: Contains 2 fibronectin type III domains SIMILARITY: Contains 2 protein-tyrosine phosphatase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tyrosine + phosphate.
SUBUNIT: Binds GANAB
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CATALYTIC ACTIVITY: Protein tyrosine phosphate + H(2)0
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J. 9:2399-2407(1990).
T. cell activation through the FUNCTION: Required for T-cell activation through the FUNCTION: Required for T-cell activation through the FUNCTION: Required for T-cell activation through the FUNCTION:
                         Y00638; CAA68669.1;
Y00062; CAA68269.1;
M23492; AAD15273.2;
M23496; AAD15273.2;
M23466; AAD15273.2;
M23468; AAD15273.2;
M23469; AAD15273.2;
M23471; AAD15273.2;
M23471; AAD15273.2;
M23472; AAD15273.2;
M23473; AAD15273.2;
M23473; AAD15273.2;
M23474; AAD15273.2;
M23475; AAD15273.2;
M23476; AAD15273.2;
M23477; AAD15273.2;
M23478; AAD15273.2;
M23479; AAD15273.2;
M23479; AAD15273.2;
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M23479; AAD15273.2;
M23480; AAD15273.2;
M23481; AAD15273.2;
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M23482; AAD15273.2;
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: Type I membrane protein.
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fect the substrate
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two intracellular phosphatase 
tein tyrosine phosphatases LCA
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putative rece
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EMBL; M23490; AAD15273.2; J
EMBL; M23491; AAD15273.2; J
EMBL; M23491; AAD15273.2; J
PIR; A46546; A46546.
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Pfam; PF00041; fn3; 2.
Pfam; PF00102; Y phosphatase;
PRINTS; PR00700; PRTYPHPHTASE.
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                                                                                                                                                                                                                                                                                                                                                                                                                                  InterPro; IPR003961; FN_III.
InterPro; IPR008957; FN_III-like.
InterPro; IPR000387; TYR_phosphatase.
                                                                                                                                                                                                                                                                                                                                                                                                                                                          GO; GO:0005887; C:integral to plasma membrane; TAS.
GO; GO:0005001; F:transmembrane receptor protein tyrosine pho.
GO; GO:0007166; P:cell surface receptor linked signal transdu.
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TYR_PHOSPHATASE_2; 2.
TYR_PHOSPHATASE_PTP; 2.
TYR_PHOSPHATASE_PTP; 2.
ing; Antigen; Glycoprotein; Hydrolase;
Protein phosphatase; Repeat; Signal; T-cell;
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P -> L (in Ref. 1).
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                                       Score 40; DB
Pred. No. 71;
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                                                                A08FC22D6069BAF7 CRC64;
                                                                                 1801
15P 007780.
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Q7A1V2;
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                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=22040717; PubMed=12044378; DOI=10.1016/S0140-6736(02)08713-5;
Baba T., Takeuchi F., Kuroda M., Yuzawa H., Aoki K.-I., Oguchi A.,
Nagai Y., Iwama N., Asano K., Naimi T., Kuroda H., Cui L.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Staphylococcus aureus (strain MW2).
Bacteria; Firmicutes; Bacillales; Staphylococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Complete proteome; Hypothetical protein. SEQUENCE 444 AA; 52024 MW; FACCFE3353DE1F77 CRC64;
                                                                                                                                                                                                           Complete proteome; Hypothetical SEQUENCE 444 AA; 52024 MW; I
                                                                                                                                                                                                                                                             Lancet 359:1819-1827(2002).
EMBL; AP004823; BAB94127.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  OrderedLocusNames=MW0262;
                                                                                                                                                                                                                                                                                                                        acquired MRSA.";
                                                                                                                                                                                                                                                                                                                                         Yamamoto K., Hiramatsu K.; "Genome and virulence community"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 NCBI_TaxID=196620;
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EMBL; AP003358; BAB56448.1; -.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            "Whole genome sequencing of meticillin-resistant Staphylococcus
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               STRAIN=Mu50 / ATCC 700699;
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Last annotation updat
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Pred. No.
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FACCFE3353DE1F77 CRC64;
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A Holden M.T.G., Fell E.J., Lindsay J.A., Peacock S.J., Day N.P.J.,

A Enright M.C., Foster T.J., Moore C.E., Hurst L., Atkin R., Barron A.,

A Bason N., Bentley S.D., Chillingworth C., Chillingworth T.,

Churcher C., Clark L., Corton C., Cronin A., Dogsett J., Dowd L.,

Churcher C., Clark L., Corton E., Cronin A., Dogsett J., Dowd L.,

A Churcher C., Clark L., Corton C., Cronin A., Dogsett J., Dowd L.,

A Churcher C., Clark L., Corton C., Cronin A., Dogsett J., Dowd L.,

A Changes K.D., Lennard N., Line A., Mayes R., Moule S., Mungall K.,

Domond D., Quail M.A., Rabbinowitsch E., Rutherford K.M., Sanders M.,

Sharp S., Simmonds M., Stevens K., Whitehead S., Barrell B.G.,

A Spratt B.G., Parkhill J.;

A Spratt B.G., Parkhill J.;

Proc. Natl. Acad. Sci. U.S.A. 101:9786-9791(2004).
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05-JUL-2004
05-JUL-2004
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Staphylococcus aureus (strain MSSA476).
Bacteria; Firmicutes; Bacillales; Staphylococcus.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Putative membrane protein. OrderedLocusNames=SAS0262;
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Bacteria; Firmicutes; Bacillales; St
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Pred. No.
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Pred. No.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Putative integral membrane OrderedLocusNames=SAV7300;
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01-JUN-2003 (TrEMBLrel. 24,
01-JUN-2003 (TrEMBLrel. 24,
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              "Complete genomes of two clinical Staphylococcus aureus strains: evidence for the rapid evolution of virulence and drug resistance Proc. Natl. Acad. Sci. U.S.A. 101:9786-9791(2004).
EMBL; BX571856; CAG39310.1; -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Churcher C., Clark L., Corton C., Cronin A., Doggett J., Dowd L., Feltwell T., Hance Z., Hárris B., Hauser H., Holroyd S., Jagels K., James K.D., Lennard N., Line A., Mayes R., Moule S., Mungall K., Ormond D., Quail M.A., Rabbinowitsch E., Rutherford K.M., Sanders M. Sharp S., Simmonds M., Stevens K., Whitehead S., Barrell B.G.,
MEDLINE=22608306; PubMed=12692562; Ikeda H., Ishikawa J., Hanamoto A.,
                                                                        STRAIN=MA-4680;
                                                                                                               SEQUENCE FROM N.A.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Streptomyces avermitilis.
Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Streptomycineae; Streptomycetaceae; Streptomyces.
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Holden M.T.G., Feil E.J., Lindbay J.A., Peacock S.J., Day N
Enright M.C., Foster T.J., Moore C.E., Hurst L., Atkin R., N
Bason N., Bentley S.D.; Chillingworth C., Chillingworth T.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Staphylococcus aureus
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Q6GK25;
                                                                                                                                                                                                                                                                                                                                                                                                           MEDLINE=21477403; PubMed=11572948; DOI=10.1073/pnas.211433198;
Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Q825Z3;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Spratt B.G., Parkhill J.,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     SEQUENCE FROM N.A.
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STRAIN=MA-4680;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            NCBI_TaxID=33903;
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Firmicutes; Bacillales; Staphylococcus
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Last annotation update)
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Pred. No.
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RRACOSGEDITA

ORFNames=GZ35A2

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SEQUENCE FROM N.A. NCBI_TaxID=285357; Archaea; environmental uncultured archaeon GZfos35A2

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RESULT 14
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Q649H3
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Best Local (
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Best Local
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STRAIN-83(2) / M145;

MEDLINE-21996410; PubMed=12000953; DOI=10.1038/417141a;

Bentley S.D., Chater K.F., Cerdeno-Tarraga A.-M., Challis G.L.,

Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,

Thomson N.B., James K.D., Harris D.E., Quail M.A., Kieser H.,

Thomson N.B., James K.D., Harris D.E., Quail M.A., Kieser H.,

Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth

Huang C.-H., Kieser T., Larke L., Murphy L.D., Oliver K., O'Neil

Rabbinowitsch E., Rajandream M.A., Rutherford K.M., Rutter S.,

Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor

Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor

Seeger K., Saunders D., Sharp S., Squares S., Taylor
Q649H3;
25-OCT-2004 (TrEMBLrel. 28, Created
25-OCT-2004 (TrEMBLrel. 28, Last some
25-OCT-2004 (TrEMBLrel. 28, Last and 25-OCT-2004 (TrEMBLrel. 28, Last and 25-OCT-2004 (TremBLrel. 28)
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SEQUENCE
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EMBL; AP005050, BAC75011.1;
Complete proteome.
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                                                                                     Q649H3
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01-MAY-2000 (TramBirel. 13,
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                                                                                                                                                                                                                                                                                                EMBL; AL939107; CAB63181.1; -. Complete proteome.
                                                                                                                                                                                                                                                                                                                              coelicolor A3(2).";
Nature 417:141-147(2002)
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0; Mismatches
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Pred. No. 1.6e+02;
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RX PubMed=15353801;
RA Hallam S.J., Putnam N., Preston C.M., Detter J.C., Rokhsar D.,
RA Richardson P.M., DeLong E.F.;
RT "Reverse methanogenesis: testing the hypothesis with environmental RT genomics.";
RI Science 305:1457-1462(2004).
RN [2]
RN [2]
RN SEQUENCE FROM N.A.
RA Putnam N., Detter J.C., Richardson P.M., Rokhsar D.;
RN Putnam N., Detter J.C., Richardson P.M., Rokhsar D.;
RN EMBL; AY714863; AAU83954.1; -.
KW Protease.
SQ SEQUENCE 707 AA; 77979 MW; EE0581020FC8E469 CRC64;
Query Match
Best Local Similarity 88.9%; Pred. No. 3.6e+02;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
Db 227 ALIAFILFI 235
Search completed: May 3, 2005, 05:58:30
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